

AGENDA

RICHMOND REGIONAL TRANSPORTATION PLANNING ORGANIZATION POLICY BOARD

**Thursday, May 6, 2021
9:30 a.m.**

Main Street Station, 1500 E. Main St., Richmond VA, 23219

Members of the public may observe the meeting via YouTube Live Streaming at www.youtube.com/c/PlanRVA. Opportunities for sharing comments are described in the [Public Participation](#) guide on the www.PlanRVA.org website.

CALL TO ORDER (Paige).....	
PLEDGE OF ALLEGIANCE (Paige).....	
WELCOME AND INTRODUCTIONS (Paige).....	
STATEMENT REGARDING VIRTUAL MEETINGS (Parsons)	page 1
ROLL CALL & CERTIFICATION OF A QUORUM (Paige)	

A. ADMINISTRATION

- 1. Consideration of Amendments to the Action Meeting Agenda**
(Paige).....
- 2. Approval of April 1, 2021 RRTPO Policy Board Action Meeting Minutes**
(Paige).....page 2
ACTION REQUESTED
- 3. Open Public Comment Period**
(Paige/5 minutes)
- 4. RRTPO Chair's Report**
(Paige/5 minutes)
- 5. RRTPO Secretary's Report**
(Parsons/5 minutes).....page 9
 - a. Current Work Efforts
 - b. RRTPO Work Status and Financial Report for March 2021
 - c. CVTA Update

B. NEW BUSINESS

1. **ConnectRVA 2045 – Universe of Projects**
(Aryal/15 minutes)page 28
ACTION REQUESTED
2. **FY21 – FY24 TIP Amendments: GRTC Request**
(Busching/10 minutes)page 45
ACTION REQUESTED
3. **FY21 – FY24 TIP Amendments: DRPT Request**
(Busching/10 minutes)page 52
ACTION REQUESTED
4. **FY21 – FY24 TIP Amendments: VDOT Request**
(Busching/10 minutes)page 58
ACTION REQUESTED
5. **Draft FY22 Unified Planning Work Program (UPWP)**
(Parsons/10 minutes)
Information Item

C. AGENCY AND COMMITTEE REPORTS

1. **Transportation Agency Updates**
(VDOT, DRPT/10 minutes)
 - a. VDOT – Mann
 - b. DRPT – DeBruhl

D. OTHER BUSINESS

1. **Future Meeting Topics**
(Paige/5 minutes)page 62
2. **RRTPO Member Comments**
(Paige/5 minutes)
3. **Next Meeting: June 3, 2021**
(Paige)

E. ADJOURNMENT

CAP/nm
Attachments

Opening Statement for Electronic Meetings

Due to the 2020 COVID-19 virus and current guidance regarding physical distancing to reduce the potential for spread, meetings of the Richmond Regional Planning District Commissions have transitioned to a virtual format in accordance with provisions of Virginia Code § 2.2-3708.2 and related legislation approved by the General Assembly of Virginia during the period of the Governor's State of Emergency Declaration for COVID-19.

While we meet in a remote/virtual format, we remain committed to public accessibility and opportunity to participate. Staff provided notice of this meeting to members and the public on April 26, 2021 through electronic posting on the PlanRVA website and email distribution of notice to members, alternates, and known interested parties, including the media.

This meeting will be recorded. Audio and visual recordings of the meeting and materials will be posted on the PlanRVA website within 48 hours of this meeting.

Any member of the public participating as an observer during the meeting today may submit comments or questions at any time prior to or during the meeting via email at rrtpoinput@PlanRVA.org. All comments and questions submitted at this time will be reviewed following the meeting and to the extent practical, responses will be provided or posted on the PlanRVA website.

We ask that members identify themselves first when speaking so we can more accurately record the activities of the meeting. All lines should be muted to minimize additional noise and feedback. You may unmute your line at any time to request acknowledgement from the Chair.

Please let us know if you have any questions regarding the process for assuring effective facilitation of this meeting or for how members of the public may participate.

By providing this statement, staff certifies that we have followed the approved procedures for appropriate notice of this meeting and the means by which we are convening.

Please indicate your presence by saying "HERE" when your name is called during a roll call. Anyone who wishes to identify themselves following the roll call of members will be invited to do so.

Agenda Item A.2.

*Minutes of the April 1, 2021 RRTPO Policy Board
Action Meeting*

1

REQUESTED ACTION

*The RRTPO Policy Board is requested to approve
the Minutes of the April 1, 2021 RRTPO Policy Board
action meeting as presented.*

**RICHMOND REGIONAL TRANSPORTATION PLANNING ORGANIZATION
POLICY BOARD**

**MINUTES OF ACTION MEETING
Zoom Virtual Meeting
April 1, 2021
9:30 a.m.**

MEMBERS and ALTERNATES (A) PRESENT:

Town of Ashland		Charles City County		Chesterfield County	
John H. Hodges	x	Vice Chair William G. Coad		Kevin P. Carroll	x
Anita Barnhart (A)		Vacant (A)		James M. Holland	x
				Christopher Winslow	x
				Leslie Haley (A)	
Goochland County		Hanover County		Henrico County	
John L. Lumpkins Jr.	x	Sean M. Davis		Patricia S. O'Bannon	x
Susan F. Lascolette		W. Canova Peterson	x	Frank J. Thornton	x
Vacant (A)		Faye O. Prichard (A)		Thomas M. Branin (A)	
Vacant (A)		Vacant (A)		Vacant (A)	
New Kent County		Powhatan County		City of Richmond	
Chair Patricia A. Paige	x	David T. Williams	x	Andreas D. Addison	x
C. Thomas Tiller Jr.		Vacant		Katherine L. Jordan	
Thomas W. Evelyn (A)		Vacant (A)		Stephanie A. Lynch	
Vacant (A)		Vacant (A)		Cynthia I. Newbille	x
				Michael J. Jones (A)	
				Kristen Nye Larson (A)	
				Ellen F. Robertson (A)	
				Vacant (A)	
Capital Region Airport Commission		GRTC Transit System		RIC Metropolitan Transp. Authority (RMTA)	
John B. Rutledge		Julie E. Timm	x	Joi Taylor Dean	x
		Sheryl Adams (A)			
Secretary of Transportation or Designee		CTAC		DRPT	
R. Shane Mann	x	Robert L. Basham Jr. (non-voting)		Jennifer B. DeBruhl (non-voting)	x
Mark E. Riblett (A)	x	Upton S. Martin (A) (non-voting)		Tiffany T. Dubinsky (A) (non-voting)	x
Federal Highway Administration (FHWA)		Federal Transit Administration (FTA)		RideFinders	
Thomas L. Nelson Jr. (non-voting)	x	Daniel Koenig (Liaison)		Von S. Tisdale (non-voting)	x
Richard Duran (A) (non-voting)	x			Cherika N. Ruffin (A) (non-voting)	
VA Dept. of Aviation (DOAV)					
P. Clifford Burnette Jr. (non-voting)					

Ashland | Charles City | Chesterfield | Goochland | Hanover | Henrico | New Kent | Powhatan | Richmond

PlanRVA, 9211 Forest Hill Avenue, Suite 200, Richmond, VA 23235

RRTPO Policy Board Action Meeting Minutes – April 1, 2021 – page 1

The RRTPO Policy Board meeting was held by electronic communication means as set forth by the April 22, 2020 actions of the General Assembly in response to the continued spread of novel coronavirus, or COVID-19. The technology used for this meeting was a web-hosted service created by Zoom and YouTube Live Streaming and was open and accessible for participation by members of the public. Voting record tables are included in Appendix A. A recording of this meeting is available on our [Plan RVA YouTube Channel](#).

CALL TO ORDER

The Richmond Regional Transportation Planning Organization (RRTPO) Policy Board Chair, Patricia A. Paige, presided and called the April 1, 2021 RRTPO Policy Board action meeting to order at 9:30 a.m.

ATTENDANCE ROLL CALL & CERTIFICATION OF MEETING QUORUM

Nicole Mueller, Program Coordinator, took attendance by roll call and certified that a quorum was present.

A. ADMINISTRATION

1. Consideration of Amendments to the Action Meeting Agenda

There were no requested changes to the meeting agenda. Seeing and hearing no objections, the April 1, 2021 agenda was approved by acclamation as presented.

2. Approval of March 4, 2021 RRTPO Policy Board Action Meeting Minutes

On motion of Christopher Winslow, seconded by Cynthia I. Newbille, the RRTPO Policy Board unanimously approved the minutes of the March 4, 2021 meeting by acclamation as presented (see Appendix).

B. NEW BUSINESS

2. Action on FY22 – FY27 RSTBG/CMAQ Draft Allocations

On motion of Patricia S. O'Bannon, seconded by James M. Holland, the Richmond Regional Transportation Planning Organization (RRTPO) Policy Board unanimously approved the following resolution:

Resolved, that the Richmond Regional Transportation Planning Organization (RRTPO) Policy Board approves the allocation of Regional Surface Transportation Block Grant (RSTBG) and Congestion Mitigation and Air Quality (CMAQ) funds as presented.

3. Action on FTA Section 5310 Program Grant Applications Endorsement

On motion of W. Canova Peterson, seconded by David T. Williams, the Richmond Regional Transportation Planning Organization (RRTPO) Policy Board unanimously approved the following resolution:

Resolved, that the Richmond Regional Transportation Planning Organization Policy Board endorses the following applications for Federal Transit Administration (FTA) Section 5310 funds and found by the Department of Rail

and Public Transportation (DRPT) to be eligible for FTA Section 5310 Program funds:

- Chesterfield County Citizen Information and Resources-\$553,600 for operating assistance
- Chesterfield Community Mental Health Services Board-\$195,000 to purchase three 15-passenger vans
- Goochland CARES-\$65,000 to purchase one 14-passenger van
- Hanover DASH-\$235,300 to provide and expand specialized transportation services for older adults and individuals with disabilities
- Heart Havens-\$150,000 to purchase three nine-passenger vans
- St Joseph's Villa: \$65,000 to purchase one 14-passenger van
- Senior Connections-\$454,100 to provide mobility management and transportation services for older adults and persons with disabilities
- The Mill House-\$65,000 to purchase one 14-passenger van

C. AGENCY AND COMMITTEE REPORTS

1. Transportation Agency Updates

- a. ** A copy of the Virginia Department of Transportation update provided by R. Shane Mann is available at: [VDOT Update](#)
To follow up on Mrs. O'Bannon's question from the last meeting regarding "Willingness", please see this description from VDOT: A VDOT "Willingness" means that for a project that does not require a public hearing, VDOT issues a notice to the public to create awareness of the project and that if there is a public desire, VDOT is willing to hold a public hearing; thus why it is called "willingness".
- b. ** A copy of the Virginia Department of Rail and Public Transportation update provided by Tiffany Dubinsky, Statewide Transit Planner at DRPT, is available at: [DRPT Update](#)

2. Community Transportation Advisory Committee Meeting Report

** A copy of the CTAC meeting report can be found on pages 63-65 in the [April 1, 2021 RRTPO Policy Board agenda packet](#).

D. OTHER BUSINESS

2. RRTPO Member Comments

It was requested to include a presentation at a future meeting on the agreement between the Commonwealth and Amtrak, CSX, and Virginia Railway Express, launching a \$3.7 billion investment to expand and improve passenger, commuter, and freight rail in Virginia and create a vital connection in America's national rail network between the Northeast and Southeast corridors.

3. Next RRTPO Policy Board Meeting: May 6, 2021

The next action meeting will be held on May 6, 2021, beginning at 9:30 a.m. in Richmond, Virginia.

E. ADJOURNMENT:

Chairwoman Paige adjourned the meeting at approximately 11:14 a.m. on April 1, 2021.

APPENDIX A

RRTPO Policy Board – Voting Record Tables

Item A.2. Approval of March 4, 2021 RRTPO Policy Board Action Meeting Minutes

Jurisdiction/Agency (No. of Votes)	Member/Alternate	Aye	Nay	Abstain	Absent
Town of Ashland (1)	John H. Hodges	x			
Charles City County (1)	William G. Coad				x
Chesterfield County (4)	Kevin P. Carroll	x			
	James M. Holland	x			
	Christopher Winslow	x			
Goochland County (2)	John L. Lumpkins	x			
	Susan Lascolette				x
Hanover County (3)	Sean M. Davis				x
	W. Canova Peterson	x			
Henrico County (4)	Patricia S. O'Bannon	x			
	Frank J. Thornton	x			
New Kent County (2)	Chair Patricia A. Paige	x			
	C. Thomas Tiller				x
Powhatan County (2)	David T. Williams	x			
	Vacant (A)				
City of Richmond (4)	Andreas D. Addison	x			
	Katherine L. Jordan				x
	Stephanie A. Lynch				x
	Cynthia I. Newbille	x			
Capital Region Airport Commission (CRAC) (1)	John B. Rutledge				x
GRTC Transit System (1)	Julie Timm	x			
RIC Metropolitan Transp. Authority (RMTA) (1)	Joi Taylor Dean	x			
Secty Trans Desig (1)	R. Shane Mann	x			
TOTAL		25			

The bylaws of the RRTPO Policy Board define a quorum of the body to be 14 of the 27 total members.

Item B.2. FY22 – FY27 RSTBG/CMAQ Draft Allocations

Jurisdiction/Agency (No. of Votes)	Member/Alternate	Aye	Nay	Abstain	Absent
Town of Ashland (1)	John H. Hodges	x			
Charles City County (1)	William G. Coad				x
Chesterfield County (4)	Kevin P. Carroll	x			
	James M. Holland	x			
	Christopher Winslow	x			
Goochland County (2)	John L. Lumpkins	x			
	Susan Lascolette				x
Hanover County (3)	Sean M. Davis				x
	W. Canova Peterson	x			
Henrico County (4)	Patricia S. O'Bannon	x			
	Frank J. Thornton	x			
New Kent County (2)	Chair Patricia A. Paige	x			
	C. Thomas Tiller				x
Powhatan County (2)	David T. Williams	x			
	Vacant (A)				
City of Richmond (4)	Andreas D. Addison				x
	Katherine L. Jordan				x
	Stephanie A. Lynch				x
	Cynthia I. Newbille	x			
Capital Region Airport Commission (CRAC) (1)	John B. Rutledge				x
GRTC Transit System (1)	Julie Timm	x			
RIC Metropolitan Transp. Authority (RMTA) (1)	Joi Taylor Dean	x			
Secty Trans Desig (1)	R. Shane Mann	x			
TOTAL		25			

The bylaws of the RRTPO Policy Board define a quorum of the body to be 14 of the 27 total members.

Item B.3. Action on FTA Section 5310 Program Grant Applications Endorsement

Jurisdiction/Agency (No. of Votes)	Member/Alternate	Aye	Nay	Abstain	Absent
Town of Ashland (1)	John H. Hodges	x			
Charles City County (1)	William G. Coad				x
Chesterfield County (4)	Kevin P. Carroll	x			
	James M. Holland	x			
	Christopher Winslow	x			
Goochland County (2)	John L. Lumpkins	x			
	Susan Lascolette				x
Hanover County (3)	Sean M. Davis				x
	W. Canova Peterson	x			
Henrico County (4)	Patricia S. O'Bannon	x			
	Frank J. Thornton	x			
New Kent County (2)	Chair Patricia A. Paige	x			
	C. Thomas Tiller				x
Powhatan County (2)	David T. Williams	x			
	Vacant (A)				
City of Richmond (4)	Andreas D. Addison				x
	Katherine L. Jordan				x
	Stephanie A. Lynch				x
	Cynthia I. Newbille	x			
Capital Region Airport Commission (CRAC) (1)	John B. Rutledge				x
GRTC Transit System (1)	Julie Timm	x			
RIC Metropolitan Transp. Authority (RMTA) (1)	Joi Taylor Dean	x			
Secty Trans Desig (1)	R. Shane Mann	x			
TOTAL		25			

The bylaws of the RRTPO Policy Board define a quorum of the body to be 14 of the 27 total members.

Agenda Item A.5.

RRTPO Secretary's Report

2

NO ACTION REQUESTED – INFORMATION ITEM

RRTPO Secretary, Chet Parsons, will review items in the RRTPO Secretary's Report included under this agenda tab.

a. Current Work Efforts..... pages 10

*b. RRTPO Work Status and Financial
Report for March 2021.....pages 12*

c. CVTA Update

Current Work Efforts Update – Item A.5.a.

ConnectRVA 2045 Long-Range Transportation Plan

Staff has finalized a master list of potential regional projects, a “Universe of Projects”, for the Richmond region. The initial public review period for the Universe of Projects ran from March 8, 2021 until March 23, 2021 and was extended to run again from March 25, 2021 until April 15, 2021. The extension was made in response to public requests for additional time and Advisory Committee recommendation. Based on the comments received during this period, staff worked with the jurisdictional staff to remove and add a few projects in the Universe of Projects. The Universe of Projects was approved by the ConnectRVA 2045 Advisory Committee on April 22nd. Staff will now begin the testing process to score, rank, and prioritize the Universe of Projects into a refined draft cost constrained project list.

Ashland Trolley Line Trail Study

Two story maps for the project illustrate the importance and potential for the 14-mile Trolley Line Trail, including [history of the trolley line](#) and a [design sketchbook](#). The National Park Service continues to provide project facilitation and planning assistance through September 30, 2021. PlanRVA hosted a [Better Together webinar on the Fall Line trail](#) on April 15 which includes the route of the Trolley Line Trail. On April 23, staff met with the Trolley Line committee, including representatives from Hanover, Henrico, and the Town of Ashland to review updates from each locality and discuss how the committee can work with the Friends of the Fall Line. The committee expressed their interest in coordinating with the Fall Line to plan for their special portion of the Fall Line, adding value with a sense of history, community identity, and recognition of the unique character of the landscape and communities along the trail route from Lakeside to Ashland and in-between.

Regional Bicycle and Pedestrian Plan Update

The purpose of this project is to update the 2004 regional plan as a central component of the ConnectRVA2045 long range transportation plan. Staff held an eighth steering committee meeting on March 30 to continue revisions of the interactive GIS story map data collected for the plan as well as continuing to build and refine the list of projects. Staff continues to write sections of the plan and collect images to help illustrate the document.

Ashland Complete Streets Pilot Project

Complete streets guidelines, or a “tool-box” of resources, depicted through graphic and photographic examples will to serve as implementation support for the regional bike/ped plan. These images are intended to show specific locations where good standards have been implemented and where infrastructure improvements could incorporate complete streets elements for better solutions throughout the region. The illustrated [story map](#) is available for review and continues to be updated.

Active Transportation Work Group (ATWG)

Staff continues to plan for the May ATWG meeting. Staff continues to work with Henrico staff on the County’s ATWG and efforts to develop the bicycle and pedestrian

chapter of the county's comprehensive plan. Staff assisted the East Coast Greenway Alliance on de-designation of Cannon Creek Greenway in Richmond and a segment of trail in Fredericksburg, as those segments no longer follow the envisioned route through those localities.

Public Transportation Work Group

The RRTPO Public Transportation Work Group continues to meet as needed to support the development of the GRTC Regional Transportation Plan. The GRTC Board was provided an overview of the recommended priorities proposed to include in the FY22 draft plan. The proposal is to maintain the current service levels, conduct a study in FY22 for micro mobility and potential pilots, identify capital needs, as well as work toward prioritizing the expansion needs that have been identified through the collaborative effort. The draft plan is scheduled to go to CVTA TAC on May 10th and the MPO TAC on May 11th. This will give the opportunity for feedback from both committees.

Vision Zero Work Group

The RRTPO Vision Zero Work Group is working with VDOT and their consultant on a regional action plan. The data collection and analysis will progress for the next few months and will be a great resource for member localities as they position for safety improvements around the region. A schedule for completion of the plan is being developed.

RSTP/CMAQ Subcommittee

The RSTP/CMAQ Subcommittee met on April 12, 2021 and recommended the draft guidelines document to the full TAC. This concludes the subcommittee's work and the draft RSTP/CMAQ guidelines will be considered by the full TAC in May.

Rural Transportation Advisory Committee (RTAC)

The RTAC, made up of planning representatives from the four (4) rural localities continue to focus on road network resiliency mapping to help the localities in their own planning and prioritization for roadway and bridge/culvert improvements working with VDOT. The data will also be useful as applied throughout the Richmond region to measure "environmental resiliency" performance for project scoring through the LRTP process. Funding opportunities for implementing flood prevention measures, addressing hazard mitigation, and coastal resiliency were also shared with RTAC. The RTAC plans to meet quarterly.



Work Program Status Report March 2021

PlanRVA

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Richmond, Virginia 23235

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The RRTPO Work Program Progress Report provides a short summary of each activity for the month of March 2021. Please reference the [2021 UPWP](#) for details concerning the approved budget and work description for each task. Table 1 identifies all the tasks in the UPWP and the associated budget.

Table 1 summarizes overall federal and local revenues budgeted by PlanRVA in FY 2021 to support the work of RRTPO. Federal funds budgeted constitute 80 percent of the total; State and local matching funds constitute 20 percent, unless otherwise noted.

TABLE 1. SUMMARY OF FY 2021 RRTPO UPWP BUDGET

Work Task	RRTPO Budget				TOTAL
	PL	5303	CO 5303	OTHER (I)	
	Total	Total	Total	Total	
7110 Program Management	145,661	67,619	-	-	213,280
7120 UPWP, Budget, and Contract Administration	45,242	7,873	-	-	53,115
7210 Public Outreach and Equity Analysis	147,980	56,457	-	-	204,437
7220 Special Planning Efforts	53,813	-	-	-	53,813
7230 Contingency Funding	16,584	-	30,000	-	46,584
7310 Metropolitan Transportation Plan	370,904	134,734	-	-	505,637
7320 Travel Demand Modeling & Emission Analysis	120,935	48,062	-	593,550	762,547
7330 Transit	47,310	137,265	-	-	184,575
7340 Active Transportation- Bicycle & Pedestrian	145,615	23,201	-	-	168,816
7350 Systems Resilience Plan	105,285	-	-	-	105,285
7410 Performance Based Transportation Planning	66,441	20,515	-	-	86,955
7420 Financial Programming/ Transportation Improvement Program	305,928	20,354	-	-	326,282
7430 Rail, Freight & Intermodal Planning	14,621	8,959	-	-	23,579
7500 Rural Transportation	-	-	-	72,500	72,500
TOTAL (\$)	1,586,320	525,038	30,000	666,050	2,807,408

(I) 7320 funds are RSTBG funds for travel demand model development and scenario planning, 7500 funds are PlanRVA allocated rural transportation funds shown for reference

7100 Program Management

7100	BUDGET	Billed this month	Total Funds Expended	% Total Funds Expended	UPWP Page
Program Management	\$266,395	\$14,804	\$118,690	45%	10

- Developed agenda packages for the RRTPO Policy Board, Technical Advisory Committee and Community Transportation Advisory Committee
- Coordinated with internal staff, member jurisdiction staff, and elected officials on agendas, technical studies, subcommittee work, and state/federal coordination for the Central Virginia Transportation Authority.

7210 Public Outreach & Equity Analysis

7210	BUDGET	Billed this month	Total Funds Expended	% Total Funds Expended	UPWP Page
Public Outreach & Equity Analysis	\$204,437	\$12,088	\$66,341	32%	12

- LRTP Public Engagement coordination meetings - internal
- General outreach to planning partners and stakeholders, relating to ConnectRVA 2045 and other transportation projects.
- Development of social media and email materials for meeting notices
- Review of public comments via public surveys and preparation of database with staff recommendations on ConnectRVA 2045 Wikimap
- Development of ConnectRVA 2045 Metroquest survey on funding priorities
- EJ/Equity analysis tool development for LRTP/MPO project review
- Title VI certification findings review
- Coordination with FHWA preparing for federal recertification in 2021
- Uploaded and linked documents, status reports, and meeting agendas for the LRTP to the ConnectRVA 2045 website
- Created and maintained the events calendar on the ConnectRVA 2045 webpage to keep the public up to date on meetings and deadlines
- Created blog posts on the ConnectRVA 2045 website for public review and comments on the current work efforts in the LRTP

- Participated in the March 5 virtual VAPDC Winter Series Moving Forward program, which featured two presentations on how the State of Virginia was addressing and responding to the impacts of COVID-19 on the economy. State Secretary of Commerce and Trade Brian Bell noted that among the measures that had been taken were creation of an economic crisis strike force, creation of a rent and mortgage relief program, and creation of Go Virginia Program to provide support for the state's businesses. Steve Moret of the Virginia Economic Development Partnership noted that it may take until mid-2022 for employment levels to reach pre-COVID levels, and that there will be a need to re-skill many workers who lost their jobs during the pandemic. He also spoke of the importance of creating more business ready sites across the state and creating a state office of education economics to link the education and workforce sectors.
- Met virtually with CTAC Chair Robert Basham on March 2 to review and finalize the agenda for the March 18 CTAC meeting. Assisted with the conduct of the virtual meeting.
- Participated in a March 10 virtual meeting with other PlanRVA staff concerning the scoring and selection of public engagement services. In addition to discussing some of the strengths of the firms under consideration, other topics discussed included how the selected firm(s) might function as an extension of the PlanRVA staff, using the firm(s) to provide training and coaching, and creating a public involvement toolkit.
- Prepared for inclusion in the April TPO and TAC agenda packets a staff report summarizing the March 18 CTAC meeting.
- Reviewed and provided comments on MURP student Rebekah Cazares' professional plan, "Disability Inclusive Transportation. Assessing First Mile Last Mile Conditions in the Richmond Region."
- Participated in the March 26 VAMPO virtual peer exchange. Among the topics discussed were the CMAQ funding cuts, the proposed Census definition changes and their potential impacts on MPO's and use of the MetroQuest survey tool. Briefed those participating in the meeting on PlanRVA's use of the MetroQuest survey tool, the work related to the update of the long-range transportation plan, and work related to setting up the CVTA.
- Participated in the March 31 National Association of Regional Councils webinar, "The Post Pandemic Workplace-Where, How and Why." The webinar featured a panel discussion with four representatives of regional agencies of varying sizes and included comments on the continuation of virtual meetings and telework, guiding principles for returning to work, and configuration of office and meeting spaces.

7220 Special Planning Efforts

7220	BUDGET	Billed this month	Total Funds Expended	% Total Funds Expended	UPWP Page
Special Planning Efforts	\$53,813	\$8,461	\$38,256	71%	14

- General all-staff meetings and training
- Data requests from planning partners and peer agencies
- GRP technical advisory steering committee
- Coordination with GRTC, RMTA, GRP, ChamberRVA and RRT on their initiatives and areas of overlap with our agencies.
- Data sharing discussions with GRTC, RMTA and GRP
- Coordination of speaking engagements to highlight agency achievements with groups like AMPO, NADO, and local/regional partners
- Coordinated with local staff, elected officials, and congressional representatives on developing project applications for potential federal earmarks.

7310 Long-Range Transportation Plan (ConnectRVA 2045)

7310	BUDGET	Billed this month	Total Funds Expended	% Total Funds Expended	UPWP Page
LRTP	\$505,638	\$48,916	\$370,434	73%	16

- Developed a master list of potential regional projects, a “Universe of Projects” for the Richmond region. The draft Universe of Projects and online interactive maps have been available for public review and comment on ConnectRVA 2045 [website](#) from March 8 and will be available through April 15.
- Continued collaboration with LRTP-AC and the Project Champions to finalize the regionally significant transportation projects within the RRTPO’s Metropolitan Planning Area (MPA) Boundary. The second draft list was sent to the LRTP Advisory Committee for their review and comments on March 18.
- Participated in the March 25 virtual meeting of the ConnectRVA 2045 Advisory Committee. The primary topics included presentations on the Planning and Programming tasks and the LRTP schedule.
- Continued groundwork and participation in the internal staff meetings to execute various tasks for the LRTP – project development, project prioritization, performance measures, accessibility analysis, environmental justice analysis, document development, mapping, public participation strategy and website maintenance.

- Participated in the March 9 LRTP Public Engagement Committee meeting. Among the items discussed were seeking input on the proposed Universe of Projects, development of a MetroQuest survey to seek input on the distribution of transportation dollars, and potential in-person presentations related to the plan.
- Forwarded the ConnectRVA 2045 Universe of Projects e-mail to representatives of Senior Connections and the administrators of the Hanover, Goochland and New Kent Human Services networks.
- Participated in the March 18 PlanRVA Better Together webinar, which featured a presentation by John Martin on the Richmond-Hampton Roads regional collaboration known as RVA757 Connects. Mr. Martin covered the history of the collaboration, its focus areas, and projects that the collaborative will be advocating for. In the transportation sector these include an extension of the Virginia Capital Trail, increased passenger rail service, and the widening of I-64.
- Participated in the March 23 virtual meeting of the LRTP Public Engagement Committee. Among the topics discussed were the draft MetroQuest survey, next steps in summarizing and responding to the public comments that have been submitted, and how to effectively share/make public the comments on the plan.
- Continued work on the document design and layout for the LRTP including creative a cohesive look and feel for all maps, graphs, charts, and other graphics

7320 Regional Travel Demand Model (RTDM)

7320	BUDGET	Billed this month	Total Funds Expended	% Total Funds Expended	UPWP Page
RTDM	\$762,547	\$11,359	\$94,794	12%	17

- **Consultant Support**

- Participated in the February 5, 16, 22 and 29 virtual meetings with the consultants to discuss the coding of ConnectRVA 2045 Universe of projects in the RTC Model so that they can be evaluated, scored and ranked based on the model runs.
- Continued discussion with the consultants and refinement of the tools being developed for Task 8: ConnectRVA 2045 Tools Development including RTC model-based tools, the accessibility tool, the Benefit Cost Analysis Tool and the Economic Impact Analysis Tool
- Reviewed on-call consultant invoice and developed invoice cover memo for the two invoices delivered on March 20, 2020
- Started discussion with the on-call consultant to develop the scope and budget of Task 9: ConnectRVA 2045 Model Runs and Technical Support.

- **Data Requests**

- Provided the most up to date Richmond/Tri-Cities (RTC) Model to the consultants (Kimley-Horn) to be used for the STARS South Laburnum Avenue Corridor Study in Henrico County.

7330 Transit

7330	BUDGET	Billed this month	Total Funds Expended	% Total Funds Expended	UPWP Page
Transit	\$184,575	\$11,350	\$116,603	60%	18

- Reviewed the following documents:
 - A Policy Framework for the Future of Automated Mobility: The Need for Local Government Policy
 - Michigan Connected and Automated Vehicle Program Strategic Plan
 - Data Driven Driving-Shifting into Shared Mobility and Autonomous Cars
 - Low Speed Automated Vehicles in Public Transportation
- Participated in a March 3 virtual discussion of Goochland County's transportation needs and potential solutions. Followed up by forwarding to Carol Dunlop of Goochland Cares links to recent regional public and human services transportation studies and services in operation of other parts of the region. Participated in a March 21 follow-up discussion with Sally and Carol Dunlop of Goochland Cares concerning participating in contracted Medicaid non-emergency medical transportation.
- Participated in the March 4 virtual public meeting sponsored by GRTC to review and obtain input on concepts for additional investment in public transportation. With the creation of the Central Virginia Transportation Authority and its associated dedicated funding stream, GRTC may be able to fund as much as \$10 million in additional service. The presentation covered the land use drivers of ridership, and concepts for additional service that would provide additional ridership or coverage. The anticipated impacts of the concepts on residents in poverty and minority residents were presented, along with comparisons of how far one could travel in 45 minutes and the number of jobs that could be accessed.
- Participated in the March 11 Transit Talk Program. The program, which was sponsored by RVA Rapid Transit, featured a presentation by GRTC CEO Julie Timm on the implications of zero fare policies. In her presentation Ms. Timm reviewed GRTC's budget and revenue projections, funding sources, and profiles of the individuals the system serves. She also reviewed the case for and against zero fare, as well as post-COVID opportunities.
- Participated in (observed) the March 12 virtual meeting of the CVTA Transit Service Governance Subcommittee. The primary topic was a presentation by the study consultant on their analysis of GRTC. The presentation reviewed GRTC's ridership profiles, regional demographics, and fare structure. The second part of the presentation covered GRTC's history and background, governance structure, 10-year funding summary and key insights. Next steps include continued stakeholder outreach and studies of select peer services.
- Participated in the March 15 and 16 virtual GRTC Regional Transit Core Design Workshop. The primary purpose of the workshop was to develop alternatives for the improvement of transit services with the additional transit funding that will be provided by the Central Virginia Transit Authority. The workshop featured a review of the public input that had been received regarding transit service enhancements; presentations of proposed service enhancements based on ridership and coverage models, and discussions by representatives from the local jurisdictions as to which concepts would best meet their residents' needs.

- Participated in (observed) the March 16 virtual meeting of the GRTC Board of Directors. Among the discussions and deliberations of the Board were an update on the activities of the CVTA, providing direction on the regional transportation service enhancement plan, and the use of Federal COVID-19 relief funding. Concerning the regional transportation plan policy direction, the Board agreed to defer any action pending a special called meeting on March 22. Participated in the March 22 follow-up virtual meeting of the Board of Directors. The primary topic was the regional public transportation plan. Attributes of the ridership and coverage concepts were presented, and after a discussion of the concepts the Board adopted a resolution indicating that GRTC may prioritize approximately 15% of the Central Virginia Transportation Fund revenues allocated for new service toward coverage goals.
- Participated in the March 23 virtual meeting of the Public Transportation Work Group. The meeting included a presentation by the study consultant of considerations related to financing the expanded transit network. In addition to reviewing key financial assumptions, the presentation covered how the costs of expanded service might be shared by the local jurisdictions, and a proposed four-tier approach for implementation of the expanded service.
- Participated in the March 25 National Institute for Congestion Reduction webinar, “Commute Trip Reduction Program-Based Congestion-What Tools Still Work?” the program featured an overview of a University of South Florida research study of the effectiveness of commuter trip reduction programs in Washington State. The study examined the effect of variables such as monetary incentives, alternative work schedules, and on-site services on reducing drive alone mode share. Mathematical models that related the change in vehicle trip reductions to the variables were presented, along with conclusions as to which measures are most effective in reducing drive-alone commute trips.

Paratransit and CHSMP

- Participated in the March 3 virtual meeting of the Longevity Project. The primary topic was the update of the Longevity Project Strategic Plan. Participants shared their perspectives on what would make the region a great place to grow old, the strategies they would like for the Longevity Project to focus on, and specific data or best practice information that would be useful to them.
- Participated in the March 4 virtual Longevity Project presentation on BlueZones, which featured remarks by VCU professor Lexy Holcomb on the impacts of the interior built environment on longevity. Ms. Holcomb noted that living in a multi-level home with multiple levels can actually lead to a longer and healthier life span. She pointed out the need for safe design standards, including handrails, floor materials, lighting, eliminating trip hazards, using contrasting colors for walls and floors, and the importance of walking and limiting seated intervals to 20 minutes.
- Participated in the March 10 United States Access Board presentation and discussion, “Accessibility for Passengers with Mobility Disabilities-Part 1.” The program featured presentations and comments on the use and configuration of accessible autonomous vehicles. The findings of a University of Buffalo study on the impacts of various ramp slopes on access and egress were presented, and a representative of an accessible vehicle manufacturer noted some of the challenges of installing accessible equipment in low floor, battery powered vehicles.
- Developed an updated summary of major transportation initiatives and programs for presentation to the Senior Connections Board of Directors at their March 23 virtual meeting. Provided overviews of the following topics to the Board members during their meeting: (1) ConnectRVA 2045; (2) GRTC regional public transportation plan; (3) March 18 Community Transportation Advisory Committee meeting; (4) Central Virginia Regional

Transportation Authority; and (5) GRTC free transportation to COVID-19 vaccination appointments

- Participated in the March 24 US Access Board webinar, "Inclusive Design of Autonomous Vehicles: A Public Dialogue." The webinar featured presentations and discussions concerning wheelchair securement physical space requirements; an example of an automated wheelchair loading and securement system; research on automated wheelchair tiedown and occupant restraint systems; research on how different securement systems affect securement time and usability for users of different types of mobility devices, and the research implications of incorporating securement systems in self-driving vehicles
- Participated in the March 26 virtual discussion of the Longevity Project Strategic Update. Pointed out to the participants the role of PlanRVA in developing regional transportation plans, and how this same organizational model might be applied to a regional approach to addressing issues associated with aging. Suggested the use of dashboards to track progress in aging-related programs and project and followed up by forwarding a link to the VDOT dashboard to Jay White of the Longevity Project.
- Developed an updated summary of major transportation initiatives and programs for presentation to the Hanover Human Services Network at their April 1 virtual meeting.

7340 Active Transportation: Bicycle and Pedestrian

7340	BUDGET	Billed this month	Total Funds Expended	% Total Funds Expended	UPWP Page
Active Transp.	\$168,816	\$15,216	\$118,032	70%	19

Active Transportation Work Group

- Staff began planning for the May meeting. Staff also participated in the Henrico County active transportation work group on March 17.

East Coast Greenway

- Staff continued to work with East Coast Greenway Alliance (ECG) on updates to designated sections of the trail the Richmond region. Staff also planned for the April ECG council meeting, which included a proposal to de-designate the Cannon Creek Greenway, which is no longer expected to be part of the ECG route through Richmond due to the planned Fall Line trail route.

Richmond Regional Bicycle and Pedestrian Plan

- Staff met with the Steering Committee on March 30 and provided an overview of the approach to building a regional bike/ped network along with preliminary gap fillers to link existing and proposed projects into the regional system. Steering committee was asked to provide input by April 15 in order to gauge project priorities and start developing a phasing plan.
- Staff continues to refine and update the list of potential bike/ped projects that begin to set the framework for a regional network for active transportation.
- Staff provided a list of projects with cost estimates that are intended to be included in the Universe of Projects in the LRTP.
- As part of the Bike/Ped plan, staff continues to develop and revise the [regional plan story map](#), which includes a [Level of Stress map](#) that uses traffic data to help rank potential levels of stress to bicyclists on roadways in the Richmond region. The map and data have been presented to the steering committee and staff will continue to revise.
- Staff continues to organize, write, and edit sections of the update to the plan in preparation for review by the steering committee at the next meeting in May.
- Continued update of a SharePoint website and a Google Drive updated for committee members to share resources and their own observations of travel around the region on foot or bike. Committee continues to update a [WikiMap](#) shared by the LRTP.

Town of Ashland pilot project and regional guidance for Complete Streets

- Staff continues to refine the illustrative guideline tool box of complete streets best practices for use by the localities in their own planning work and to support implementation of the regional bicycle and pedestrian plan; to be added to the [story map](#).

Fall Line (formerly Ashland Trolley Line Trail / Ashland to Petersburg Trail)

- Staff has scheduled a Trolley Line steering committee for April 23 to provide updates on progress, and ways to integrate efforts with the Fall Line.
- The National Park Service (NPS) Rivers, Trails, and Conservation Assistance (RTCA) program continues to provide technical assistance for the participating localities.

7350 Systems Resilience Plan

7350	BUDGET	Billed this month	Total Funds Expended	% Total Funds Expended	UPWP Page
Systems Resil. Plan	\$105,285	\$2,232	\$15,347	15%	20

- Coordination with coastal program initiatives, including data mapping and overlap in programs among the eastern counties in the MPO study area
- Development of GIS analysis to develop water risk areas (sea level rise, storm surge, floodplain), mapping potential flood closures, and identifying vulnerable populations
- Coordination through participation of the transportation work group for the RVA Green 2050 plan being prepared by the City of Richmond Office of Sustainability.

7410 Performance Based Transportation Planning

7410	BUDGET	Billed this month	Total Funds Expended	% Total Funds Expended	UPWP Page
Perf. Based Transp. Plng.	\$86,956	\$4,655	\$53,593	62%	21

System Performance

- Updated the dashboard (<https://planrva.org/transportation/covid-19-pandemic/>) to track various PlanRVA transportation related metrics and the changes in those metrics due to the COVID-19 pandemic. The dashboard is on the Transportation home page of the PlanRVA website. The interactive dashboard was created using Tableau.
- Attended the OIPI-VDOT-MPO quarterly meeting. Topics included updates on VTrans, SMART Scale, the Strategic Highway Safety Plan, and DRPT. Presentations were given on MPO prioritization strategies for RSTP, LRTP Revenue Estimates, MPA Boundary Coordination, Pathways for Planning, CY2021 PM targets, and the platform for multimodal transportation performance.
- Compiling 2019 NPMRDS and INRIX data and maps for the CMP network.

7420 Transportation Improvement Program (TIP)

7420	BUDGET	Billed this month	Total Funds Expended	% Total Funds Expended	UPWP Page
TIP	\$326,282	\$23,486	\$197,873	61%	23

Maintenance

- Based on TPO approval at the 3/4/21 TPO meeting, the RSTBG funds transfer documents were submitted the following projects to VDOT on 3/5/21:
 - Transfer FY12 168,284 RSTBG funds from the Charles City Rt 607 minor widening project (#59166) to the RMT gate improvements and new drop lot project (#113832)
 - Transfer FY12 \$426,000 RSTBG funds from the Charles City Rt 609 reconstruction project (#85337) to the RMT gate improvements and new drop lot project (#113832)
 - Transfer \$235,135 (FY15 \$144,844 and FY17 \$90,291) RSTBG funds from the Goochland I-64/Rt 623 IMR project (#102931) to the RMT gate improvements and new drop lot project (#113832)
 - Transfer FY08 \$169,289 RSTBG funds from the Richmond Shockoe Bottom operation improvements project (#101854) to the RMT gate improvements and new drop lot project (#113832)
 - Transfer FY17 \$163,949 RSTBG funds from the RMT intermodal transfer improvements to the RMT gate improvements and new drop lot project (#113832)
- Received a TIP adjustment request for 13 GRTC projects from GRTC and obtained the DRPT concurrence on 3/9/21. The TIP adjustment documents for the following 13 projects were prepared and submitted to GRTC and DRPT on 3/23/21:
 - UPC GRTC003: Preventive Maintenance—GRTC
 - UPC GRTC004: Replacement Rolling Stock—GRTC
 - UPC GRTC005: Bus Stop Amenities—GRTC
 - UPC GRTC008: Paratransit Vehicles—GRTC
 - UPC GRTC031: Security and Surveillance—GRTC
 - UPC GRTC032: Acquire Maintenance Equipment—GRTC
 - UPC GRTC033: Acquire Computer Hardware—GRTC
 - UPC GRTC034: Acquire Computer Software—GRTC
 - UPC GRTC035: Support Vehicles—GRTC
 - UPC GRTC037: Capital Cost of Contracting—GRTC
 - UPC GRTC050: Maintenance/Admin Facility Renovation—GRTC
 - UPC GRTC056: Reha/Renovate Admin & Facility—GRTC
 - UPC GRTC059: Non-Fixed Route ADA Paratransit Svc—GRTC
- Received a TIP amendment request for five GRTC projects from GRTC and obtained the DRPT concurrence on 3/9/21. The TIP amendment documents for the following three projects were prepared and will be included in the 4/13/21 TAC meeting agenda package

for their discussion and recommendation to TPO for TPO's approval at the 5/6/21 TPO meeting:

- UPC GRTC065: Articulated Buses—GRTC
 - UPC GRTC067: Consultant Services—GRTC
 - UPC GRTC068: BRT Station Modification—GRTC
- Received a TIP adjustment request for six FTA Section 5310 projects from DRPT on 3/15/21 as follows:
 - UPC CAA0001: Operating Assistance—FTA Section grant project
 - UPC CAA0002: Mobility Management—FTA Section 5310 grant project
 - UPC HCS0001: Paratransit Vehicles—FTA Section 5310 grant project
 - UPC CHS0003: Operating Assistance—FTA Section 5310 grant project
 - UPC HCS0001: Operating Assistance—FTA Section 5310 grant project
 - UPC SJV0001: Paratransit Vehicles—FTA Section 5310 grant project

These adjustment documents were submitted to DRPT on 3/25/21. The TIP was updated with these adjustments was place on the PlanRVA website.

- Received a TIP amendment request for two FTA Section 5310 projects on 3/15/21 and obtained the DRPT concurrence on 3/15/21. The TIP amendment documents for the following two projects were prepared and included in the 4/13/21 TAC meeting agenda package for their discussion and recommendation to TPO for TPO's approval at the 5/6/21 TPO meeting.
 - UPC CBI0001: Paratransit Vehicles—FTA Section 5310 project
 - UPC HHI0001: Paratransit Vehicles—FTA Section 5310 project
- Received a TIP amendment request on a project grouping summary table from VDOT on 3/16/21. The TIP amendment documents for the following project was prepared and included in the 4/13/21 TAC meeting agenda package for their discussion and recommendation to TPO for TPO's approval at the 5/6/21 TPO meeting.
 - Revision of Project Grouping Summary Table —
Construction: Bridge Rehabilitation/Replacement/Reconstruction
 - PE: Add
 - \$2,476,840 NHS/NHPP funds to FY21.
 - RW: Add
 - \$268,060 NHS/NHPP funds to FY21;
 - \$1,478,205 NHS/NHPP funds to FY23;
 - \$266,357 STP/STBG funds to FY23.
 - CN: Add
 - \$13,738,026 AC Conversion funds to FY22;
 - \$4,012,221 AC Conversion funds to FY24.
 - \$1,463,471 NHFP funds to FY21;
 - \$9,995,039 NHS/NHPP funds to FY21;
 - \$7,805,103 NHS/NHPP funds to FY24;
 - \$3,344,097 STP/STBG funds to FY24.
 - CN: Revise
 - FY23 AC Conversion funds from \$200,000 to \$9,012,602.

- CN Fed AC funds: Revise
 - FY21 Fed CN AC funds from \$3,519,000 to \$30,223,322.
- CN AC Other funds: Add
 - \$9,329,785 CN AC Other funds to FY21;
 - \$8,470,585 CN AC Other funds to FY24.
- CN AC funds: Add
 - \$8,470,585 CN AC funds to FY24;
- CN AC funds Revise
 - FY21 CN AC funds from \$3,519,000 to \$39,553,107.

7430 Rail, Freight, Intermodal Planning

7430	BUDGET	Billed this month	Total Funds Expended	% Total Funds Expended	UPWP Page
Rail, Freight, Interim. Pang.	\$23,580	\$2,634	\$10,750	46%	24

Staples Mill Road Station Advance Planning and Design Study

- DRPT and their consultant are in the final stage of completing 30% design documents for the replacement of the Staples Mill Amtrak Station. The final Staples Mill Road Station Area Transit-Oriented Development Concept Plan recommended a corridor working group be formed that consists of Henrico, VDOT, DRPT, and PlanRVA to guide the VDOT sub-area plan and more detailed traffic studies of Staples Mill Road to improve both multimodal access to the station and usher in a more supportive land use pattern within the corridor.
- The working group is being formed by VDO for the next stage of the sub-area plan.

Other

- Staff coordinated with OIPI on designations for critical urban freight corridors in the region
- Staff is working with Crater PDC to make suggested changes to OIPI freight corridor designations

7500 Rural Transportation

7500	BUDGET	Billed this month	Total Funds Expended	% Total Funds Expended	UPWP Page
Rural Transportation	\$72,500	\$5,853.95	\$21,667.41	30%	25

Rural Transportation Advisory Committee (RTAC)

- Staff met with the 4 members of the RTAC (Tom Coleman of Goochland, Andrew Pompeii of Powhatan, Kelli Le Duc of New Kent, and Rhonda Russell of Charles City) on February 17 and will follow up on confirmation of the data layer provided which shows the populations in the rural counties which are the most vulnerable to being cut off from road access due to road flooding from extreme weather events, poor road/bridge conditions or sea level rise, all factors which contribute to an assessment of the rural road system with regard to “resilience”.
- Opportunities related to environmental and coastal resources and hazard mitigation plan development have also been shared with the RTAC.
- An April meeting is being planned to discuss natural green infrastructure network connections to courthouse areas.

Agenda Item B.1.

ConnectRVA 2045 – Universe of Projects

REQUESTED ACTION

Review and approval of the ‘Universe of Projects’ for the ConnectRVA 2045 long-range transportation plan. Staff will use the data driven process approved by the ConnectRVA 2045 Advisory Committee (AC) to score, rank, and prioritize the Universe of Projects into a refined draft cost constrained project list.

RESOLUTION

The following resolution is presented for RRTPO Policy Board approval:

RESOLVED, that the Richmond Regional Transportation Planning Organization Policy Board approves the ‘Universe of Projects’ for the ConnectRVA 2045 long-range transportation plan and authorizes staff to begin the testing process to score, rank, and prioritize the ‘Universe of Projects’ into a refined draft cost constrained project list.

3

POLICY BOARD AGENDA 5/6/21; ITEM B.1.

ConnectRVA 2045 – Universe of Projects

Richmond Regional Transportation Planning Organization

REQUESTED ACTION: Review and approval of the ‘Universe of Projects’ for the ConnectRVA 2045 long-range transportation plan. Staff will use the data driven process approved by the ConnectRVA 2045 Advisory Committee (AC) to score, rank, and prioritize the Universe of Projects into a refined draft cost constrained project list.

BACKGROUND: Staff has been developing a master list of potential regionally significant projects, a “Universe of Projects” for the Richmond region. This list is based on regional and local transportation studies, additional recommendations provided by Advisory Committee (AC) members, future transportation issues identified by the Richmond/Tri-Cities Travel Demand Model and public input received through the [ConnectRVA 2045 website](#), community engagement, and advisory committees. The policy board was given a brief update about this during the April Meeting.

PUBLIC COMMENT: The initial public review period for the Universe of Projects ran from March 8, 2021 until March 23, 2021 and was extended to run again from March 25, 2021 until April 15, 2021. The extension was made in response to public requests for additional time and AC recommendation.

Significant public comment was received through a combination of comments placed on the Wikimap of potential projects, direct comments on the ConnectRVA 2045 website, or direct emails received by staff. In total, staff received 151 comments in the initial period and 848 comments in the extended period, for a total of 999 comments across this range of opportunities for engagement over the 38-day period.

Based on the comments received during this period, RRTPO staff worked with the jurisdictional staff to remove and add a few projects in the Universe of Projects.

The purpose of this stage of the planning process is to set the foundation for all the projects that RRTPO will test and rank for possible inclusion in the draft plan (this is what we are referring to as the Universe of Projects). By being on this list it doesn't mean any project is approved or that it is included in the plan - we still need to go through data-driven travel demand model testing, benefit/cost analysis, and equity/social impact testing on each potential project. After that analysis is complete, the ranking of priority projects can be performed and compared with expected funding allocations to set the draft constrained project list. The draft constrained list is a condensed summary of projects that can reasonably be expected to receive funding during the planning period (through 2045) and fits within the anticipated budget. These steps will happen between now and September, with multiple opportunities for public feedback and engagement.

The final Universe of Projects and the compilation of all the public comments received from March 8, 2021 through April 15, 2021 is included for policy board information.

ConnectRVA 2045 Advisory Committee RECOMMENDATION: ConnectRVA 2045 AC reviewed the Universe of Projects and approved it as presented by staff.

STAFF RECOMMENDATION: Staff also recommends approval of the Universe of Projects as presented.

ACTION REQUESTED: The following resolution is presented for consideration:

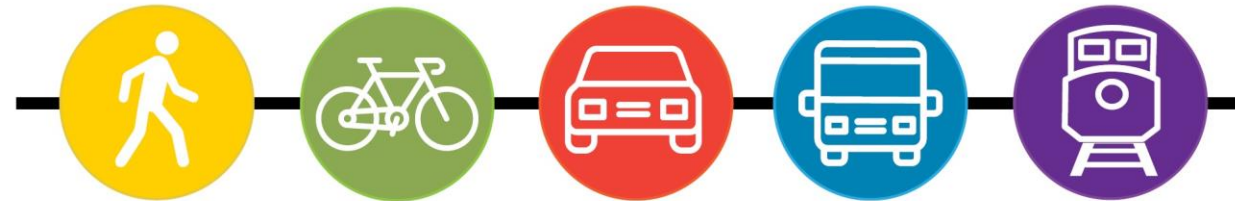
RESOLVED, that the Richmond Regional Transportation Planning Organization Policy Board approves the 'Universe of Projects' for the ConnectRVA 2045 long-range transportation plan and authorizes staff to begin the testing process to score, rank, and prioritize the 'Universe of Projects' into a refined draft cost constrained project list.

SA

Attachments: The 200-page Universe of Projects document including all public comments is available online at <https://planrva.org/wp-content/uploads/8-Item-B-1-ConnectRVA-2045-UoP-with-Public-Comments.pdf>

1. ConnectRVA 2045 Universe of Projects 4-19-2021
2. Universe of Projects – All Public Comments

Connect RVA 2045



Universe of Projects

ConnectRVA 2045 Universe of Projects - Highway Projects (4-19-2021)

SN	Public Review ID	Final Project ID	Route/ Intersection/ Interchange	Direction	Project Description	Project Type	From	To	Existing Lanes	Proposed Lanes	Jurisdiction	Project Cost Estimates
1	HW-1	FHW-1	Archie Cannon Dr	Both	Construction of a bridge over CSX RR	New Overpass	N/A	N/A	2	2	Ashland	\$ 26,000,000
2	HW-2	FHW-2	Ashland Rd	Both	Widening with added capacity	Road Widening	Broad Street Rd	I-64	2	4	Goochland	\$ 23,954,000
3	HW-3	FHW-3	Ashland Rd	Both	Widening with added capacity	Road Widening	I-64 Ramp NB	I-64 Ramp SB	2	5	Goochland	\$ 16,900,000
4	HW-4	FHW-4	Ashland Rd	Both	Widening with added capacity (3.7 mi)	Road Widening	Henrico Co. Line	US-33	2	4	Hanover	\$ 43,500,000
5	HW-5	FHW-5	Ashland Rd	Both	Widening with added capacity (2.65 mi)	Road Widening	US-33	Blanton Rd	2	4	Hanover	\$ 32,000,000
6	HW-6	FHW-6	Atlee Station Rd	Both	Widening with added capacity (1.5 mi)	Road Widening	Kings Charter Dr	Sliding Hill Rd	2	4	Hanover	\$ 32,000,000
7	HWY- 171	FHW-7	Bethlehem Rd	Both	Widening with added capacity and bike/ped facilities	Road Widening	Libbie Ave	Dickens Rd	2	4	Henrico	\$ 6,500,000
8	HWY- 172	FHW-8	Carolina Ave	Both	Widening with added capacity and bike/ped facilities	Road Widening	Richmond Henrico Tpk	Laburnum Ave	2	4	Henrico	\$ 35,600,000
9		FHW-9	Carter Gallier Blvd	NA	Construction of a new two lane road from Carter Gallier Boulevard to Luck Stone Road completing a road parallel to US Route 60	Road Extension	NA	NA	NA	NA	Powhatan	\$ 15,353,000
10	HW-7	FHW-10	Cauthorne Rd	Both	Widening with added capacity (4.0 mi)	Road Widening	Ashland Rd	Henrico Co. Line	2	4	Hanover	\$ 28,000,000
11	HW-8	FHW-11	Cedar Ln	Both	Widening with added capacity (2.1 mi)	Road Widening	US-1	Elmont Rd	2	4	Hanover	\$ 25,000,000
12	HW-9	FHW-12	Cedar Ln	Both	Widening with added capacity (4.0mi)	Road Widening	Elmont Rd	Ashland Rd	2	4	Hanover	\$ 48,000,000
13	HW-10	FHW-13	Charles City Rd	Both	Widening with added capacity	Road Widening	Williamsburg Rd	Eastport Blvd	2	4	Henrico	\$ 26,000,000
14	HW-11	FHW-14	Charles City Rd	Both	Widening with added capacity	Road Widening	Laburnum Ave	Monahan Rd	2	4	Henrico	\$ 15,000,000
15	HW-12	FHW-15	Chester Rd	Both	Widening with added capacity	Road Widening	Wood Dale Rd	W Hundred Rd	2	4	Chesterfield	\$ 10,000,000
16	HW-13	FHW-16	Chester Rd	Both	Widening with added capacity	Road Widening	VA-288	Kingsdale Rd	2	4	Chesterfield	\$ 10,000,000
17	HW-14	FHW-17	Chester Rd	Both	Widening with added capacity	Road Widening	Kingsdale Rd	US-1	2	4	Chesterfield	\$ 20,000,000
18	HW-15	FHW-18	Church Rd	Both	Widening with added capacity and bike/ped facilities	Road Widening	Three Chopt Rd	John Rolfe Pkwy	2	4	Henrico	\$ 31,000,000
19	HW-16	FHW-19	Commerce Rd & Walmsley Blvd	N/A	Construction of a roundabout at Commerce Rd and Walmsley Boulevard Intersection	Intersection Improvement	N/A	N/A	N/A	N/A	Richmond	\$ 12,800,000
20	HW-17	FHW-20	Courtney Rd	Both	Widening with added capacity and bike/ped facilities	Road Widening	Staples Mill Rd	Mountain Rd	2	4	Henrico	\$ 12,500,000
21	HW-18	FHW-21	Creighton Rd	Both	Widening with added capacity (1.1mi)	Road Widening	I-295	Cold Harbor Rd	2	4	Hanover	\$ 12,000,000
22	HW-19	FHW-22	Creighton Rd	Both	Widening with added capacity and bike/ped facilities	Road Widening	Cedar Fork Rd	Hanover County Line	2	4	Henrico	\$ 26,000,000
23		FHW-23	Creighton Rd	Both	Widening with added capacity and bike/ped facilities	Road Widening	Sandy Ln	City Limits	2	3	Henrico	\$ 14,000,000
24	HW-20	FHW-24	Darbytown Rd	Both	Widening with added capacity and pedestrian accommodations	Road Widening	S Laburnum Ave	Doran Rd	2	4	Henrico	\$ 18,000,000
25	HW-22	FHW-25	Darbytown Rd	Both	Widening with added capacity and pedestrian accommodations	Road Widening	Richmond City Line	Laburnum Ave	2	4	Henrico	\$ 65,000,000
26	HWY- 173	FHW-26	Dickens Rd	Both	Widening with added capacity and bike/ped facilities	Road Widening	Staples Mill Rd	Oconto Rd	2	4	Henrico	\$ 8,000,000
27	HW-24	FHW-27	Fairground Rd	Both	Construction of a new 2-lane road	Road Extension	Sandy Hook Rd	River Road West	0	2	Goochland	\$ 10,958,325
28	HW-26	FHW-28	Greenwood Rd	Both	Widening with added capacity and bike and pedestrian accommodations	Road Widening	Woodman Road	County Line	2	4	Henrico	\$ 41,000,000
29	HW-27	FHW-29	Hockett Rd	Both	Realignment/Construction of a new road	Road Realignment	Hockett Rd	Broad Street Rd	2	2	Goochland	\$ 3,351,425
30	HW-28	FHW-30	Horsepen Rd	Both	Widening with added capacity and pedestrian accommodations	Road Widening	Three Chopt Rd	Dexter Rd	4	6	Henrico	\$ 5,600,000
31	HW-29	FHW-31	Huguenot Rd & Robious Rd	N/A	Construction of Innovative intersection: Quadrants NW and SE	Intersection Improvement	N/A	N/A	N/A	N/A	Chesterfield	\$ 45,000,000
32	HW-30	FHW-32	I- 64 & N. Gayton Rd	N/A	Construction of a new Interchange at I-64 in Short Pump	New Interchange	N/A	N/A	N/A	N/A	Henrico	\$ 95,000,000
33	HW-31	FHW-33	I-295	SB	Construction of a SB auxiliary lane between the existing lane drop on I-295 SB and Chamberlayne Rd (Exit 41) off ramp (0.4mi)	Auxiliary Lane	I-95 Southbound Branch	Chamberlayne Rd (Exit-41) off ramp	N/A	N/A	Hanover/ Henrico	\$ 530,000
34	HW-32	FHW-34	I-295	NB	Construction of a single northbound auxiliary lane between the onramp from Nuckols Road SB (Exit 51) on-ramp and I-295 NB and I-64 Branch	Auxiliary Lane	Nuckols Rd (Exit 51)	Western Terminus	N/A	N/A	Henrico	\$ 20,000,000
35	HW-33	FHW-35	I-295	SB	Widening of the cross-section between I-295 SB deceleration and Exit 43 (Brook Rd) to a two-lane section (0.5mi)	Interchange Modification	I-295 SB deceleration lane	Exit 43 C	1	2	Henrico	\$ 4,000,000
36	HW-34	FHW-36	I-295	NB	Widening to a two-lane section from I-95 SB on ramp onto I-295(Exit 43) NB to end of C-D lane (0.5 mi)	Interchange Modification	I-95 SB on ramp	Exit 43 C	1	2	Henrico	\$ 8,000,000
37	HW-35	FHW-37	I-295 & Portugee Rd	N/A	Construction of a new Interchange	New Interchange	N/A	N/A	N/A	N/A	Henrico	\$ 60,000,000
38	HW-36	FHW-38	I-295 & Varina Rd	N/A	Construction of a new Interchange	New Interchange	N/A	N/A	N/A	N/A	Henrico	\$ 60,000,000
39	HW-37	FHW-39	I-295 & Creighton Rd	NB	Widening of the NB VA- 288 Off-Ramp to Two Lanes.	Interchange Modification	I-295 NB	Creighton Rd NB	1	2	Hanover	\$ 3,000,000

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40	HW-38	FHW-40	I-64	Both	Construction of an EB & WB auxiliary lane between Exit 178 (US-250) and Exit 180 (Gaskins Rd). Reconstruction of Cox Rd Bridge. Widening of EB US-250 (W Broad Street/Short Pump) to EB I-64 ramp to two lane.	Auxiliary Lane	Exit 178	Exit 180	N/A	N/A	Henrico	\$ 75,300,000
41	HW-40	FHW-41	I-64	EB	Construction of an auxiliary lane between Exit 180 (Gaskins Rd) and Exit 181 (Parham Rd)	Auxiliary Lane	Exit 180	Exit 181	N/A	N/A	Henrico	\$ 21,800,000
42	HW-41	FHW-42	I-64	EB	Construction of an auxiliary lane between Exit 181 (Parham Rd) and Exit 183 (US-250)	Auxiliary Lane	Exit 181	Exit 183	N/A	N/A	Henrico	\$ 51,400,000
43	HW-42	FHW-43	I-64	EB	Construction of an auxiliary lane between Exit 183 (US-250) and Exit 185 (US-33)	Auxiliary Lane	Exit 183	Exit 185	N/A	N/A	Henrico	\$ 27,000,000
44	HW-43	FHW-44	I-64	WB	Construction of an auxiliary lane between Exit 183 (US-250) and Exit 185 (US-33)	Auxiliary Lane	Exit 183	Exit 185	N/A	N/A	Henrico	\$ 28,000,000
45	HW-44	FHW-45	I-64	WB	Construction of an auxiliary lane between Exit 185 (US-33) and Exit 186 (I-195)	Auxiliary Lane	Exit 185	Exit 186	N/A	N/A	Henrico/ Richmond	\$ 12,000,000
46	HW-45	FHW-46	I-64	EB	Widening with added capacity (5.9 mi)	Road Widening	Exit 205 (Bottoms Bridge)	Exit 211 (VA-106)	2	3	New Kent	\$ 73,454,991
47	HW-46	FHW-47	I-64	WB	Widening with added capacity (5.9 mi)	Road Widening	Exit 205 (Bottoms Bridge)	Exit 211 (VA-106)	2	3	New Kent	\$ 75,111,201
48	HW-47	FHW-48	I-64	EB	Construction of an auxiliary lane between Welcome Center to Exit 214 (VA-155)	Auxiliary Lane	Welcome Center	Exit 214 (VA-155)	N/A	N/A	New Kent	\$ 4,000,000
49	HW-48	FHW-49	I-64	WB	Construction of an auxiliary lane between Welcome Center to Exit 214 (VA-155)	Auxiliary Lane	Welcome Center	Exit 214 (VA-155)	N/A	N/A	New Kent	\$ 9,000,000
50	HW-49	FHW-50	I-64	EB	Widening with added capacity (2.9 mi)	Road Widening	Exit 211 (VA-106)	Exit 214 (VA-155)	2	3	New Kent	\$ 25,000,000
51	HW-50	FHW-51	I-64	WB	Widening with added capacity (2.9 mi)	Road Widening	Exit 211 (VA-106)	Exit 214 (VA-155)	2	3	New Kent	\$ 25,000,000
52	HW-51	FHW-52	I-64 & Ashland Rd (VA-623)	N/A	Reconstruction of the existing Diamond Interchange to a single-lane Diverging Diamond Interchange (DDI)	Interchange Modification	N/A	N/A	N/A	N/A	Goochland	\$ 23,861,127
53	HW-52	FHW-53	I-64 & Gaskins Rd	N/A	Improvement of Interchange Configuration. Convert Interchange to Partial-Cloverleaf. Removal of eastbound I-64 off-ramp to northbound Gaskins Road loop ramp and the westbound I-64 off-ramp to southbound Gaskins Road loop ramp. Allow left turn movements from the remaining eastbound and westbound I-64 off-ramps by installing left turn lanes and signalized ramp terminals.	Interchange Modification	N/A	N/A	N/A	N/A	Henrico	\$ 47,800,000
54	HW-53	FHW-54	I-64 & Parham Rd	N/A	Improvement of Interchange Configuration. Widening EB ramp terminal to include dual right turn lanes	Interchange Modification	N/A	N/A	N/A	N/A	Henrico	\$ 25,000,000
55	HW-54	FHW-55	I-64 & US-250	N/A	Improvement of Interchange Configuration. Convert existing Interchange to Partial-Cloverleaf Eastbound US 250 to Eastbound I-64 -Restriping the middle eastbound US 250 through lane to a shared through/right to allow two lanes to exit for eastbound I-64. Widening the eastbound US 250 ramp to eastbound I-64 to two lanes. Extending the two-lane on-ramp to merge onto I-64 and provide an additional travel lane between the US 250 and Gaskins Road interchanges. Remove EB US 250 to WB I-64 Loop Ramp. Install Dual Left Turn Lane and a Traffic Signal.	Interchange Modification	N/A	N/A	N/A	N/A	Henrico	\$ 160,000,000
56		FHW-56	I-64 & US-33	NA	Addition of a southbound through lane on Staples Mill Road between I-64 west on-ramp and I-64 east on-ramp. New two-phase signal at a widened, 2 lanes to 3 lanes, I-64 off ramp to limit SB weaving. Intersection improvements include added capacity at the US-33 and Bethlehem Rd intersection via additional turn bays and an RCUT/directional median at Millstone Rd	Interchange Modification	NA	NA	NA	NA	Henrico	\$ 16,000,000
57	HW-55	FHW-57	I-95	Both	Construction of an auxiliary lane between Exit 61 (VA-10) and Exit 62 (VA-288)	Auxiliary Lane	Exit 61 (VA-10)	Exit 62 (VA-288)	NA	NA	Chesterfield	\$ 24,912,261
58	HW-56	FHW-58	I-95	SB	Construction of an SB auxiliary lane between Exit 67 (VA-150) and Exit 69 (Bells Rd)	Auxiliary Lane	Exit 67 (VA-150)	Exit 69 (Bells Rd)	NA	NA	Chesterfield/ Richmond	\$ 25,500,000
59	HW-57	FHW-59	I-95	Both	Widening with added capacity	Road Widening	Exit 62 (VA-288)	Exit 64 (Willis Rd)	6	8	Chesterfield	\$ 14,000,000
60	HW-58	FHW-60	I-95 & Bellemeade Rd	N/A	Construction of a new I-95 Interchange	New Interchange	N/A	N/A	N/A	N/A	Richmond	\$ 125,000,000
61	HW-60	FHW-61	I-95 & Belvidere St	N/A	Improvement of interchange configuration at Belvidere St/Chamberlayne Ave (Exit 76). Construct C-D Road from Exit 76 to Exit 75.Construct SPUI (single Point Urban Interchange) at Belvidere Street and remove the northbound off-ramp to Chamberlayne Avenue.	Interchange Modification	N/A	N/A	N/A	N/A	Richmond	\$ 65,000,000

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62	HW-61	FHW-62	I-95 & Broad Street/ I-64	N/A	Improvement of interchange configuration at Broad Street and I-64 (Exit 74 to Exit 75).Remove ramp from 7th St to EB I-64. Convert NB off-ramp to EB I-64 to two lanes (I choose) and carry two lanes to existing 2-lane bridge. Consolidate access points for Exit 74 and Exit 75 and Replace with NB CD System.	Interchange Modification	N/A	N/A	N/A	N/A	Richmond	
63	HW-62	FHW-63	I-95 & Hermitage Rd/ US -1	N/A	Removal of northbound off-ramps and southbound on-ramps at Hermitage Rd and at Brook Rd, and relocation to Dumbarton Interchange (Exits 80-81). Construct two-lane on-ramp from EB I-64 and remove off-ramp at Exit 80. Construct off-ramp to Dumbarton Road. Add additional lane to on-ramp from EB I-64. Construct braided ramps to remove weave on interstate.	Interchange Modification	N/A	N/A	N/A	N/A	Henrico/ Richmond	
64	HW-63	FHW-64	I-95 & I-295	N/A	Improve interchange configuration with I-295 by adding a NB C-D Road (Exit 84)	Interchange Modification	N/A	N/A	N/A	N/A	Henrico	
65	HW-64	FHW-65	I-95 & I-64	N/A	Improvement of interchange configuration with I-64 to improve the SB I-95 to WB I-64 ramp (Exit 79). Merge 3 lanes to 2 after on-ramp from Laburnum. 2-lane on-ramp from SB I-95.Convert WB I-64 on-ramp from SB I-95 to two lanes. Remove one lane from WB I-64 prior to on-ramp.	Interchange Modification	N/A	N/A	N/A	N/A	Richmond	\$ 50,000,000
66	HW-65	FHW-66	I-95 & Parham Rd	N/A	Construction of a new Partial Cloverleaf Interchange (Exit 83). Improve interchange configuration at Parham Road to remove weaving movements.	Interchange Modification	N/A	N/A	N/A	N/A	Henrico	\$ 20,000,000
67	HW-66	FHW-67	I-95 & VA-10	N/A	Construction of a new Partial Cloverleaf Interchange (Exit 61) Reconfigure interchange ramps to accommodate the partial cloverleaf configuration Eliminate southbound I-95 to eastbound Route 10 off-ramp Eliminate northbound I-95 to westbound Route 10 off-ramp Realign westbound Route 10 to northbound I-95 on-ramp	Interchange Modification	N/A	N/A	N/A	N/A	Chesterfield	\$ 52,543,000
68	HW-67	FHW-68	I-95 & VA-161	N/A	Conversion of SB I-95 off-ramp at VA-161 (Exit 78) to two lanes. Removal of one lane from SB I-95 prior to on-ramp from EB I-64. Merge 3 lanes to 2 before on-ramp from I-64. Convert off-ramp to Boulevard (VA-161) to 2 lanes (I choose lane).	Interchange Modification	N/A	N/A	N/A	N/A	Richmond	\$ 5,300,000
69	HW-68	FHW-69	I-95 & VA-54	N/A	Conversion of the interchange to a Diverging Diamond (DDI) (Exit 92)	Interchange Modification	N/A	N/A	N/A	N/A	Ashland	\$ 10,000,000
70	HW-69	FHW-70	I-95 & VA-54	N/A	Connection SB I-95 off-ramp to Hill Carter Pkwy	Interchange Modification	N/A	N/A	N/A	N/A	Ashland	\$ 3,500,000
71	HW-70	FHW-71	I-95 & VA-895	N/A	Construction of the missing SB to EB movement at I-95 & VA-895	Interchange Modification	N/A	N/A	N/A	N/A	Richmond	\$ 23,309,000
72	HW-71	FHW-72	I-95 & Willis Rd	N/A	Construction of a new Double Roundabout Interchange (Exit 64)	Interchange Modification	N/A	N/A	N/A	N/A	Chesterfield	\$ 67,478,436
73	HW-72	FHW-73	Judes Ferry Rd	Both	Widening with added capacity (0.5 mi)	Road Widening	US-60	Old Church Road	2	4	Powhatan	\$ 7,423,823
74	HW-73	FHW-74	Judes Ferry Rd	Both	Construction of a new 2-lane road (1.2mi)	Road Extension	Judes Ferry Road 0.4 miles N of Hancock Road	0.25 mi S of Federal Hill Farms Rd	0	2	Powhatan	\$ 11,602,350
75	HW-74	FHW-75	Judes Ferry Rd	Both	Construction of a new 4-lane road (1.8 mi)	Road Extension	US-60	Dorset Rd	0	4	Powhatan	\$ 33,989,841
76	HWY- 174	FHW-76	Lauderdale Dr	Both	Widening with added capacity and bike/ped facilities	Road Widening	Westbriar Dr	Eadenbury Dr	2	4	Henrico	\$ 8,000,000
77	HWY- 168	FHW-77	Lewistown Rd & Ashcake Rd	NA	Reconfiguration from a stop controlled "T" intersection to a roundabout	Intersection Improvement	N/A	N/A	N/A	N/A	Hanover	\$ 9,700,000
78	HW-75	FHW-78	Manakin Town Ferry Rd	Both	Construction of a new 2-lane road (0.6 mi)	Road Extension	Page Road	US-60 Aligned with Oakbridge Drive	0	2	Powhatan	\$ 5,185,746
79	HWY- 175	FHW-79	Masonic Ln/Brittles Ln	Both	Widening with added capacity and bike/ped facilities	Road Widening	Nine Mile Rd	Williamsburg Rd	2	4	Henrico	\$ 26,000,000
80	HW-76	FHW-80	Maury St	Both	Widening with added capacity	Road Widening	I-95 roundabout	Commerce Rd	2	4	Richmond	\$ 5,000,000
81	HW-77	FHW-81	Meadowbridge Rd	Both	Widening with added capacity (1.35 mi)	Road Widening	Henrico Co. Line	Atlee Rd	2	4	Hanover	\$ 13,500,000
82	HWY- 176	FHW-82	Midview Rd	Both	Widening with added capacity and bike/ped facilities	Road Widening	New Market Rd	Darbytown Rd	2	4	Henrico	\$ 25,000,000
83	HW-78	FHW-83	Mill Rd	Both	Widening with added capacity and pedestrian accommodations	Road Widening	Mill Place Dr	Mountain Rd	2	4	Henrico	\$ 2,500,000
84		FHW-84	N Gayton Rd	Both	Widening with added capacity (to include center turnlane, one through lanes each direction) and bike/ped facilities	Road Widening	US-250	Lauderdale Dr	2	3	Henrico	\$ 23,000,000

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85	HW-80	FHW-85	New Ashcake Rd	Both	Construction of a new 2-lane road (1.75 mi)	Road Extension	New Ashcake Rd	Air Park Rd	0	2	Hanover	\$ 20,000,000
86	HW-82	FHW-86	New Market Rd (VA-5)	Both	Widening with added capacity and pedestrian accommodations	Road Widening	Osborne Turnpike	I-295	2	4	Henrico	\$ 127,000,000
87	HW-83	FHW-87	New Road	Both	Construction of a new 2-lane road	New Road	Hockett Rd	Future Wilkes Ridge Parkway Extension	0	2	Goochland	\$ 15,435,000
88	HW-84	FHW-88	Nuckols Rd	Both	Widening with added capacity and pedestrian accommodations	Road Widening	Shady Grove Rd	Springfield Rd	4	6	Henrico	\$ 30,000,000
89	HW-85	FHW-89	Oilville Rd	Both	Widening with added capacity	Road Widening	Broad Street Road	I-64	2	4	Goochland	\$ 19,964,175
90	HW-86	FHW-90	Old Hundred Road	Both	Widening with added capacity	Road Widening	US-60	Mt Hermon Rd	2	4	Chesterfield	\$ 5,500,000
91	HW-87	FHW-91	Osborne Turnpike (VA-5)	Both	Widening with added capacity and pedestrian accommodations	Road Widening	New Market Rd	Richmond City Limits	2	4	Henrico	\$ 20,000,000
92	HW-88	FHW-92	Otterdale Rd	Both	Widening with added capacity	Road Widening	US-360	Woolridge Rd	2	4	Chesterfield	\$ 11,500,000
93	HW-89	FHW-93	Parham Rd & Patterson Ave	N/A	Construction of additional turn lanes and pedestrian accommodations	Intersection Improvement	N/A	N/A	N/A	N/A	Henrico	\$ 14,000,000
94	HWY- 179	FHW-94	Pemberton Rd	Both	Widening with added capacity and bike/ped facilities	Road Widening	Quioccasin Rd	US-250	2	4	Henrico	\$ 42,000,000
95	HW-90	FHW-95	Pole Green Rd	Both	Widening with added capacity (1.85 mi)	Road Widening	Rural Point Rd	Walnut Grove Rd	2	4	Hanover	\$ 21,000,000
96	HW-91	FHW-96	Pole Green Rd	Both	Widening with added capacity (2.15 mi)	Road Widening	Walnut Grove Rd	US-360	2	4	Hanover	\$ 24,000,000
97	HW-92	FHW-97	Pouncey Tract Rd	Both	Widening with added capacity (0.25 mi)	Road Widening	Henrico Co. Line	Ashland Rd	2	4	Hanover	\$ 3,000,000
98	HW-93	FHW-98	Pouncey Tract Rd	Both	Widening with added capacity and pedestrian accommodations	Road Widening	US-250	N. Gayton Rd	2	4	Henrico	\$ 20,000,000
99		FHW-99	Pouncey Tract Rd	Both	Widening with added capacity and pedestrian accommodations	Road Widening	Grey Oaks Park Dr	N. Gayton Rd	2	4	Henrico	\$ 13,000,000
100		FHW-100	Pouncey Tract Rd	Both	Widening with added capacity (to include center turnlane, two through lanes each direction) and bike/ped facilities	Road Widening	Nuckols Rd	Grey Oaks Park Dr	2	5	Henrico	\$ 10,000,000
101	HW-94	FHW-101	Pump Rd	Both	Widening with added capacity and pedestrian accommodations	Road Widening	Walbrook Rd	Waltham Dr	2	4	Henrico	\$ 7,500,000
102	HW-95	FHW-102	Red Lane Rd	Both	Construction of a new two-lane road to connect Red Lane Road with Lees Landing Road	Road Realignment	Intersection of Three Bridge Road & Lees Landing Road	Red Lane Road 0.6 miles south of its intersection with Three Bridge Road	0	2	Powhatan	\$ 6,768,038
103	HWY- 180	FHW-103	Richmond Henrico Tpk	Both	Widening with added capacity and bike/ped facilities	Road Widening	Hanover County Line	Railroad Crossing	2	4	Henrico	\$ 30,000,000
104	HW-96	FHW-104	River Road	Both	Widening with added capacity and pedestrian accommodations	Road Widening	Sleepy Hollow Rd	E/O VA-150	2	4	Henrico	\$ 22,500,000
105	HW-97	FHW-105	Rural Point Rd	Both	Widening with added capacity (2.6 mi)	Road Widening	US-301	Studley Rd	2	4	Hanover	\$ 31,000,000
106	HW-98	FHW-106	Rural Point Rd	Both	Widening with added capacity (2.1 mi)	Road Widening	Studley Rd	Pole Green Rd	2	4	Hanover	\$ 25,000,000
107	HWY- 181	FHW-107	S Airport Dr	Both	Widening with added capacity and bike/ped facilities	Road Widening	Audubon Dr	Williamsburg Rd	4	6	Henrico	\$ 5,000,000
108	HWY- 182	FHW-108	Shady Grove Rd	Both	Widening with added capacity and bike/ped facilities	Road Widening	Nuckols Rd	Hanover County line	2	4	Henrico	\$ 8,000,000
109	HWY- 169	FHW-109	Sliding Hill Rd & Ashcake Rd	NA	Reconfiguration of a 2-way stop controlled intersection to a roundabout	Intersection Improvement	N/A	N/A	N/A	N/A	Hanover	\$ 7,500,000
110	HW-99	FHW-110	Springfield Rd	Both	Widening with added capacity and pedestrian accommodations	Road Widening	Staples Mill Rd	Francistown Rd	2	4	Henrico	\$ 7,500,000
111	HW-100	FHW-111	Springfield Rd	Both	Construction of a new two-lane road with bike/ped facilities	Road Relocation	Francistown Rd	Olde Millbrooke Way	0	2	Henrico	\$ 25,000,000
112	HW-101	FHW-112	Three Chopt Rd	Both	Construction of a new 1,500 ft., two-lane divided road segment to reconnect existing segments of Three Chopt Rd under VA- 288 (underpass)	New Underpass	0.1 mile west of VA-288	0.1 mile east of VA- 288	0	2	Goochland	\$ 18,829,345
113	HW-102	FHW-113	Three Chopt Rd	Both	Widening with added capacity and pedestrian accommodations	Road Widening	Gaskins Rd	N Parham Rd	2	4	Henrico	\$ 35,000,000
114	HW-103	FHW-114	Three Chopt Rd	Both	Widening with added capacity and pedestrian accommodations	Road Widening	Skipwith Rd	Horsepen Rd	2	4	Henrico	\$ 15,000,000
115	HW-104	FHW-115	Tuckahoe Creek Pkwy	Both	Construction of a new 2-lane road	Road Extension	Tuckahoe Creek Parkway	Ridgefield Pkwy (Henrico County)	0	2	Goochland	\$ 25,770,325
116	HW-105	FHW-116	US- 301 & VA-54	N/A	Converting "Y" intersection to a roundabout	Intersection Improvement	N/A	N/A	N/A	N/A	Hanover	\$ 4,500,000
117	HWY- 170	FHW-117	US-1	Both	Widening with added capacity	Road Widening	Ashcake Rd	Sourthern Town Limits	4	6	Ashland	\$ 36,300,000
118		FHW-118	US-1	Both	Widening with added capacity	Road Widening	US-54	Archie Cannon Dr	4	5	Ashland	\$ 23,000,000
119		FHW-119	US-1 & E Parham Rd	NA	Operational improvements and pedestrian accommodations	Intersection Improvement	NA	NA	NA	NA	Henrico	\$ 1,500,000

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120	HWY- 167	FHW-120	US-1 & VA-30	NA	Reconfiguration from a stop controlled "T" intersection to a "Continuous Green-T" thereby adding a signal and dedicated left and right turn lanes on US-1	Intersection Improvement	N/A	N/A	N/A	N/A	Hanover	\$ 6,800,000
121	HW-106	FHW-121	US-1 & West Hundred Rd	N/A	Construction of Innovative Intersection: Median u-turns all approaches	Intersection Improvement	N/A	N/A	N/A	N/A	Chesterfield	\$ 45,000,000
122	HW-107	FHW-122	US-250 & Glenside Drive	N/A	Operational improvements and pedestrian accommodations	Intersection Improvement	N/A	N/A	N/A	N/A	Henrico	\$ 5,000,000
123	HW-108	FHW-123	US-250 & Parham Rd	N/A	Operational improvements and pedestrian accommodations	Intersection Improvement	N/A	N/A	N/A	N/A	Henrico	\$ 11,000,000
124		FHW-124	US-250 & Pouncey Tract Rd	NA	Increase capacity at US-250 & Pouncey Tract Rd intersection with an additional lane	Intersection Improvement	NA	NA	NA	NA	Henrico	\$ 5,000,000
125	HW-109	FHW-125	US-33	Both	Widening with added capacity (1.3 mi)	Road Widening	Overhill Lake Ln	Winns Church Rd	2	4	Hanover	\$ 16,000,000
126	HW-110	FHW-126	US-33	Both	Widening with added capacity (2.4 mi)	Road Widening	Winns Church Rd	Ashland Rd	2	4	Hanover	\$ 29,000,000
127	HW-111	FHW-127	US-360	Both	Widening with added capacity	Road Widening	E. of Cosby Rd	Magnolia Green Pkwy	4	6	Chesterfield	\$ 42,400,000
128	HW-113	FHW-128	US-360	Both	Widening with added capacity (2.35 mi)	Road Widening	Sujen Ct	Walnut Grove Rd	4	6	Hanover	\$ 50,000,000
129		FHW-129	US-360 & Broad Rock Blvd	NA	Construction of an alternative intersection with displaced left turns	Intersection Improvement	NA	NA	NA	NA	Richmond	\$ 5,000,000
130	HW-114	FHW-130	US-360 & Commonwealth Center Pkwy	N/A	Construction of a Grade Separated Diverging Diamond Interchange	New Interchange	N/A	N/A	N/A	N/A	Chesterfield	\$ 136,500,000
131	HW-115	FHW-131	US-360 & Various	N/A	Construction of US-360 Superstreet at Winterpock Road, Spring Run Road, Chital Drive, Deer Run Road, and Harbor Pointe Parkway	Intersection Improvement	N/A	N/A	N/A	N/A	Chesterfield	\$ 53,800,000
132		FHW-132	US-360, Midlothian Turnpike & Clopton St	NA	Construction of a new roundabout in the five legged intersection	Intersection Improvement	NA	NA	NA	NA	Richmond	\$ 8,000,000
133	HW-116	FHW-133	US-60	Both	Widening with added capacity	Road Widening	Page Rd	Watkins Center Pkwy	4	6	Chesterfield	\$ 33,000,000
134	HW-117	FHW-134	US-60	Both	Widening with added capacity	Road Widening	Elko Rd	New Kent Co Line	2	4	Henrico	\$ 65,000,000
135	HW-118	FHW-135	US-60	Both	Widen bridge over Belt Blvd and extend deceleration and acceleration lanes over CSX	Road Widening	Division Street	CSX RR	4	6	Richmond	\$ 40,000,000
136		FHW-136	US-60 & Belt Blvd	NA	Removal of the existing traffic signals in the vicinity of the interchange at the ramps. Construction of two new roundabouts, one in north and other in south of the bridge.	Interchange Modification	NA	NA	NA	NA	Richmond	\$ 20,000,000
137		FHW-137	US-60 & Dorset Rd	NA	Reconfiguration of the intersection of US- 60 and Dorset Road(VA-622) to a RCUT with two northbound right-turn lanes.	Intersection Improvement	NA	NA	NA	NA	Powhatan	\$ 3,700,000
138		FHW-138	US-60 & Judes Ferry Rd	NA	Reconfigurationof the intersections of US Route 60 and Judes Ferry Road into an RCUT	Intersection Improvement	NA	NA	NA	NA	Powhatan	\$ 4,850,000
139		FHW-139	US-60 & Stavemill Rd	NA	Installation of a second left-turn lane along westbound US-60	Intersection Improvement	NA	NA	NA	NA	Powhatan	\$ 2,325,231
140	HW-119	FHW-140	US-60 & US-522	N/A	Construction of a roundabout at US- 522 and a quadrant roadway from the roundabout to US-60 at the northeast corner of the intersection. Construction of a CGT at the intersection of the quadrant road and US- 60.	Intersection Improvement	N/A	N/A	N/A	N/A	Powhatan	\$ 17,100,000
141	HW-120	FHW-141	US-60 & VA-13	N/A	Construct of a RCUT at the intersection of US-60 and VA-13 (including additional turn lanes	Intersection Improvement	N/A	N/A	N/A	N/A	Powhatan	\$ 7,198,000
142	HW-121	FHW-142	VA-10	Both	Widening with added capacity	Road Widening	Jessup Rd	VA-288	4	6	Chesterfield	\$ 55,000,000
143		FHW-143	VA-10 & Walmsley Blvd	NA	Construction of a new roundabout	Intersection Improvement	NA	NA	NA	NA	Richmond	\$ 8,000,000
144	HW-122	FHW-144	VA-106	Both	Widening of the Bridge Overpass at I-64	Road Widening	I-64 EB On Ramp	I-64 WB Off Ramp	2	3	New Kent	\$ 16,407,950
145	HW-123	FHW-145	VA-150 & Belmont Rd	N/A	Extension of acceleration and deceleration lanes for ramps	Interchange Modification	N/A	N/A	N/A	N/A	Chesterfield	\$ 25,000,000
146	HW-124	FHW-146	VA-150 & Dalebrook Dr	NB	Elimination of On and Off-Ramps	Interchange Modification	N/A	N/A	N/A	N/A	Chesterfield	\$ 5,000,000
147	HW-125	FHW-147	VA-150 & Dalebrook Dr	SB	Elimination of On and Off-Ramps	Interchange Modification	N/A	N/A	N/A	N/A	Chesterfield	\$ 5,000,000

ConnectRVA 2045 Universe of Projects - Highway Projects (4-19-2021)

SN	Public Review ID	Final Project ID	Route/ Intersection/ Interchange	Direction	Project Description	Project Type	From	To	Existing Lanes	Proposed Lanes	Jurisdiction	Project Cost Estimates
148	HW-126	FHW-148	VA-150 & Hopkins Rd	N/A	Construction of a diverging diamond interchange	Interchange Modification	N/A	N/A	N/A	N/A	Chesterfield	\$ 24,424,000
149	HW-127	FHW-149	VA-150 & N. Huguenot Rd	N/A	Construction of a Full Cloverleaf Interchange without traffic signals	Interchange Modification	N/A	N/A	N/A	N/A	Richmond	\$ 30,000,000
150	HW-128	FHW-150	VA-150 & Strathmore Rd	NB	Elimination of On and Off-Ramps	Interchange Modification	N/A	N/A	N/A	N/A	Chesterfield	\$ 5,000,000
151	HW-129	FHW-151	VA-150 & Strathmore Rd	SB	Elimination of On and Off-Ramps	Interchange Modification	N/A	N/A	N/A	N/A	Chesterfield	\$ 5,000,000
152	HW-130	FHW-152	VA-150 & US-1	N/A	Reconfiguration of the interchange to partial cloverleaf	Interchange Modification	N/A	N/A	N/A	N/A	Chesterfield	\$ 33,000,000
153	HW-131	FHW-153	VA-150 & US-360	N/A	Removal of SE, NE loops and signalization of NB ramp terminal	Interchange Modification	N/A	N/A	N/A	N/A	Chesterfield	\$ 33,000,000
154	HW-132	FHW-154	VA-150 & US-60	N/A	Construction of a Partial Cloverleaf Interchange with contraflow left turns	Interchange Modification	N/A	N/A	N/A	N/A	Chesterfield	\$ 34,093,206
155		FHW-155	VA-161 & Broad Rock Blvd	NA	Construction of a new roundabout	Intersection Improvement	NA	NA	NA	NA	Richmond	\$ 8,000,000
156		FHW-156	VA-161, Brookland Pkwy & Westwood Ave	NA	Construction of a new roundabout in the five legged intersection	Intersection Improvement	NA	NA	NA	NA	Richmond	\$ 8,000,000
157	HW-134	FHW-157	VA-288	Both	Widening with added capacity	Road Widening	VA-76 (Powwhite Pkwy)	US-360	4	6	Chesterfield	\$ 42,700,000
158	HW-135	FHW-158	VA-288	EB	Widening with added capacity	Road Widening	Courthouse Rd	VA-10	2	3	Chesterfield	\$ 45,000,000
159	HW-136	FHW-159	VA-288	SB	Construction of a new SB Auxiliary Lane (1.4 mi)	Auxiliary Lane	US -250	Tuckahoe Creek Pkwy	N/A	N/A	Goochland	\$ 17,460,000
160	HW-137	FHW-160	VA-288	NB	Construction of a Hard Shoulder Running Auxiliary Lane	Auxiliary Lane	VA-711 (Huguenot Tr)	VA-6	N/A	N/A	Goochland/ Powhatan	\$ 20,925,000
161	HW-138	FHW-161	VA-288	SB	Construction of a Hard Shoulder Running Auxiliary Lane	Auxiliary Lane	West Creek Pkwy	VA-711 (Huguenot Tr)	N/A	N/A	Goochland/ Powhatan	\$ 35,232,000
162	HW-140	FHW-162	VA-288 & Courthouse Rd.	N/A	Improvement of WB 288 to NB Courthouse off ramp, extention of decel lane and addition of dual right turns	Interchange Modification	N/A	N/A	N/A	N/A	Chesterfield	\$ 25,000,000
163	HW-142	FHW-163	VA-288 & US-250	SB	Construction of a dual NB right-turn lanes at the SB VA- 288 ramp intersection and widening the northbound VA- 288 off-ramp to two lanes	Interchange Modification	N/A	N/A	N/A	N/A	Goochland	\$ 4,900,000
164	HW-143	FHW-164	VA-288 & US-250	NB	Construction of a New Directional On-Ramp (1-lane)	Interchange Modification	WB US-250	NB VA-288	0	1	Goochland	\$ 21,000,000
165	HW-144	FHW-165	VA-288 & US-250	SB	Construction of a New Directional On-Ramp (1-lane)	Interchange Modification	WB US-250	SB VA-288	0	1	Goochland	\$ 19,850,000
166	HW-146	FHW-166	VA-288 & US-360	N/A	1) Construction of Route 288 NB Flyover Ramp (1 lane) widening to 2 lanes at partial Diverging Diamond Interchange (DDI), 2) Reconstruction of SB on-ramp, 3) Realignment and widening of SB off-ramp to 2 lanes before DDI, 4) Roundabouts: Bailey Bridge Connector at Commonwealth Centre Connector (2 lane), Commonwealth Centre Connector at Commonwealth Centre Parkway (1 lane) , 5) Cul-de-sac Commonwealth Centre Parkway	Interchange Modification	N/A	N/A	N/A	N/A	Chesterfield	\$ 51,100,000
167	HW-147	FHW-167	VA-288 & US-360	N/A	Construction of a EB US-360 to NB VA-288 Directional on-ramp (2 lanes)	Interchange Modification	N/A	N/A	0	2	Chesterfield	\$ 29,500,000
168	HW-148	FHW-168	VA-288 & US-360	N/A	Construction of SB VA-288 CD Road (2 lanes)	Interchange Modification	N/A	N/A	0	2	Chesterfield	\$ 43,700,000
169	HW-150	FHW-169	VA-54	Both	Widening with added capacity	Road Widening	Frances Rd	East Corporate Limits	2	4	Ashland	\$ 5,520,000
170	HW-151	FHW-170	VA-6	Both	Widening with added capacity	Road Widening	Maidens Rd	Hermitage Rd	2	4	Goochland	\$ 86,390,500
171	HW-152	FHW-171	VA-76 & Charter Colony Pkwy	N/A	Construction of a Grade- Separated Diverging Diamond Interchange	New Interchange	N/A	N/A	N/A	N/A	Chesterfield	\$ 30,000,000

ConnectRVA 2045 Universe of Projects - Highway Projects (4-19-2021)

SN	Public Review ID	Final Project ID	Route/ Intersection/ Interchange	Direction	Project Description	Project Type	From	To	Existing Lanes	Proposed Lanes	Jurisdiction	Project Cost Estimates
172	HW-153	FHW-172	VA-76 & VA-150	NB	Construction of a choice lane at NB VA- 150 off loop ramp diverge. Widening of NB VA-76 express lane to 3 lanes to VA- 150 interchange	Interchange Modification	N/A	N/A	2	3	Chesterfield	\$ 23,184,612
173	HW-154	FHW-173	VA-76 & VA-150	SB	Construction of a choice lane at SB VA- 150 off loop ramp diverge	Interchange Modification	N/A	N/A	2	2	Chesterfield	\$ 14,225,544
174	HW-155	FHW-174	VA-76 (Powhite Pkwy)	Both	Construction of a new At-Grade 4-lane road	Road Extension	Charter Colony Pkwy	Little Tomahawk Creek	0	4	Chesterfield	\$ 154,300,000
175	HW-156	FHW-175	VA-76 (Powhite Pkwy)	Both	Construction of a new At-Grade 4-lane road	Road Extension	Little Tomahawk Creek	Otterdale Road	0	4	Chesterfield	\$ 40,800,000
176	HW-157	FHW-176	VA-76 (Powhite Pkwy)	Both	Construction of a new At-Grade 4-lane road	Road Extension	Otterdale Road	Genito Road	0	4	Chesterfield	\$ 66,200,000
177	HW-158	FHW-177	VA-76 (Powhite Pkwy)	Both	Construction of a new At-Grade 4-lane road	Road Extension	Genito Road	Duval Road	0	4	Chesterfield	\$ 109,400,000
178	HW-159	FHW-178	VA-76 (Powhite Pkwy)	Both	Construction of a new At-Grade 4-lane road	Road Extension	Duval Road	US-360	0	4	Chesterfield	\$ 66,800,000
179	HW-160	FHW-179	VA-895 & Wilton Rd	N/A	Construction of a New Interchange	New Interchange	N/A	N/A	N/A	N/A	Henrico	\$ 60,000,000
180	HW-162	FHW-180	Walmsley Blvd	Both	Construction of a new 2-lane road	Road Extension	US-1	Commerce Road.	0	2	Richmond	\$ 52,300,000
181	HW-163	FHW-181	Wilkes Ridge Parkway	Both	Construction of a new 2-lane road	Road Extension	Wilkes Ridge Parkway	Tuckahoe Creek Pkwy	0	2	Goochland	\$ 23,152,500
182	HW-164	FHW-182	Woodman Rd	Both	Widening with added capacity and pedestrian accommodations	Road Widening	Hermitage Rd	Hilliard Rd	2	4	Henrico	\$ 5,000,000
183	HW-165	FHW-183	Woodman Rd	Both	Widening with added capacity and pedestrian accommodations	Road Widening	Mountain Rd	Hungary Rd	2	4	Henrico	\$ 45,000,000
184	HW-166	FHW-184	Woodside Ln	Both	Construction of a new 2-lane road (1.1 mi)	Road Extension	Jamestown Rd	Hickory Hill Rd	0	2	Hanover	\$ 12,500,000

ConnectRVA 2045 Universe of Projects - Bridge Projects (4-19-2021)

SN	Public Review ID	Final Project ID	Route	Facility	Featured intersection	Project Description	Jurisdiction	Project Cost Estimates
185	BR-2	FBR-1	US-1	Jeff Davis Hwy	Ashton Creek	Bridge - Replacement/Rehabilitation	Chesterfield	\$ 2,364,700
186	BR-3	FBR-2	I-64	Wbl I-64	Airport Drive (VA-156)	Bridge - Replacement/Rehabilitation	Henrico	\$ 35,000,000
187	BR-4	FBR-3	I-195	I-195	VA- 197 & CSX	Bridge - Replacement/Rehabilitation	Henrico	\$ 13,451,250
188	BR-5	FBR-4	VA-73	Parham Road	CSX Railway	Bridge - Replacement/Rehabilitation	Henrico	\$ 2,300,000
189	BR-6	FBR-5	I-64	Ebl I-64	Airport Drive (VA-156)	Bridge - Replacement/Rehabilitation	Henrico	\$ 13,444,450
190	BR-7	FBR-6	US-60	Ebl Pocahontas Tr	Toe Ink Swamp	Bridge - Replacement/Rehabilitation	New Kent	\$ 3,055,750
191	BR-8	FBR-7	US-250	Broad Street	I-95	Bridge - Replacement/Rehabilitation	Richmond	\$ 13,673,125
192	BR-9	FBR-8	VA-147	Cary Street	I-195 & CSX Railroad	Bridge - Replacement/Rehabilitation	Richmond	\$ 11,745,468
193	BR-10	FBR-9	US-360	14th Street	James River South Div	Bridge - Replacement/Rehabilitation	Richmond	\$ 24,000,000
194	BR-11	FBR-10	US-250	Broad Street	CSX Abandoned Spur Line	Bridge - Replacement/Rehabilitation	Richmond	\$ 3,965,009
195	BR-12	FBR-11	US-360	14th Street	James River North Div	Bridge - Replacement/Rehabilitation	Richmond	\$ 16,000,000
196	BR-13	FBR-12	I-64	Wbl I-64	I- 95	Bridge - Replacement/Rehabilitation	Richmond	\$ 4,650,000
197	BR-14	FBR-13	I-195	Sbl I-195	VA- 76, CSX Rr & Ramp S	Bridge - Replacement/Rehabilitation	Richmond	\$ 31,502,165
198	BR-15	FBR-14	I-64	Ramp To 5th & I-95S	I-95	Bridge - Replacement/Rehabilitation	Richmond	\$ 10,838,991
199	BR-16	FBR-15	VA-161	North Boulevard	CSX Railway	Bridge - Replacement/Rehabilitation	Richmond	\$ 14,000,000
200		FBR-16	VA-161	Westover Hills Blvd (RMTA)	James River	Bridge Replacement with Shared Used Path	Richmond	\$ 30,000,000

ConnectRVA 2045 Universe of Projects - Active Transportation Projects (4-19-2021)

SN	Public Review ID	Final Project ID	Corridor /Route	Project Description	Project Type	From	To	Project Jurisdiction	Total Cost Estimates
201	AT-1	FAT-1	Fall Line / Route 1	Chesterfield Fall Line Trail: Segment 2B - MM 4.0 to MM 9.4 (Only Portion Within RRTPO)	Off- Road/On-Road Trail	Brander Bridge Rd	VA- 10/W. Hundred Rd	Chesterfield	\$ 632,347
202	AT-2	FAT-2	Fall Line / Route 1	Chesterfield Fall Line Trail: Park Ext to Chester Rd.	Off- Road/On-Road Trail	VA-10/W. Hundred Rd	Chester Rd	Chesterfield	\$ 12,584,736
203	AT-3	FAT-3	Fall Line / Route 1	Chesterfield Fall Line Trail: Segment 2D - MM 10.7 to MM 12.9	Off- Road/On-Road Trail	Chester Rd	Galena Ave	Chesterfield	\$ 4,169,684
204	AT-4	FAT-4	Fall Line / Route 1	Chesterfield Fall Line Trail: Segment 3A - MM 12.9 to MM 13.6	Off- Road/On-Road Trail	Galena Ave	Kingsdale Rd	Chesterfield	\$ 1,763,672
205	AT-5	FAT-5	Fall Line / Route 1	Chesterfield Fall Line Trail: Segment 3B - MM 13.6 to MM 14.9	Off- Road/On-Road Trail	US-1/Kingsdale Rd	Gettings Ln	Chesterfield	\$ 3,879,791
206	AT-6	FAT-6	Fall Line / Route 1	Chesterfield Fall Line Trail: Segment 3C - MM 14.9 to MM 16.8	Off- Road/On-Road Trail	Gettings Ln	Wayside Park/Falling Cr	Chesterfield	\$ 6,946,577
207	AT-7	FAT-7	Fall Line / Route 1	Chesterfield Fall Line Trail: Elliham Avenue to Dwight Avenue	Off- Road/On-Road Trail	Elliham Ave	Dwight Ave	Chesterfield	\$ 8,148,275
208	AT-8	FAT-8	Fall Line / Route 1	Chesterfield Fall Line Trail: Segment 3D - MM 16.8 to MM 17.7	Off- Road/On-Road Trail	Wayside Park/Falling Cr	US-1	Chesterfield	\$ 1,579,069
209	AT-9	FAT-9	Fall Line / Route 1	Chesterfield Fall Line Trail: Falling Creek Ave. to Food Lion	Off- Road/On-Road Trail	Falling Creek Ave	Food Lion	Chesterfield	\$ 12,547,061
210	AT-10	FAT-10	Fall Line / Route 1	Chesterfield Fall Line Trail: Segment 3E - MM 17.7 to MM 18.6	Off- Road/On-Road Trail	US-1	Walmsley Blvd	Chesterfield	\$ 596,994
211	AT-11	FAT-11	Fall Line / Route 1	Richmond Fall Line Trail: Walmsley to Bellemeade	Off- Road/On-Road Trail	Walmsley Blvd	Bellemeade Rd	Richmond	\$ 16,171,264
212	AT-12	FAT-12	Fall Line / Route 1	Richmond Fall Line Trail: Segment 4B - MM 20.7 to MM 21.8	Off- Road/On-Road Trail	Bellemeade Rd	Commerce Rd.	Richmond	\$ 969,857
213	AT-13	FAT-13	Fall Line / Route 1	Richmond Fall Line Trail: Segment 4C - MM 21.8 to MM 23.9	Off- Road/On-Road Trail	Commerce Rd	Decatur St	Richmond	\$ 5,722,345
214	AT-14	FAT-14	Fall Line / Route 1	Richmond Fall Line Trail: Segment 4D - MM 23.9 to MM 24.3	Off- Road/On-Road Trail	Semmes Ave	Potterfield Bridge	Richmond	\$ 601,708
215	AT-15	FAT-15	Fall Line / Route 1	Richmond Fall Line Trail: Segment 5B - MM 25.6 to MM 26.6	Off- Road/On-Road Trail	3rd St.	W. Duval St	Richmond	\$ 1,077,074
216	AT-16	FAT-16	Fall Line / Route 1	Richmond Fall Line Trail: Segment 5C - MM 26.6 to MM 27.6	Off- Road/On-Road Trail	W. Duval St	Admiral St	Richmond	\$ 3,144,408
217	AT-17	FAT-17	Fall Line / Route 1	Richmond Fall Line Trail: Segment 5D - MM 27.6 to MM 28.5	Off- Road/On-Road Trail	Admiral St	Brookland Pkwy	Richmond	\$ 1,433,866
218	AT-18	FAT-18	Fall Line / Route 1	Richmond Fall Line Trail: Segment 6A - MM 28.5 to MM 30.5	Off- Road/On-Road Trail	Brookland Pkwy	Bellevue Ave	Richmond	\$ 3,270,066
219	AT-19	FAT-19	Fall Line / Route 1	Richmond Fall Line Trail: Segment 6B - MM 30.5 to MM 31.2	Off- Road/On-Road Trail	Bellevue Ave	Lakeside Ave	Richmond	\$ 489,554
220	AT-21	FAT-20	Fall Line / Route 1	Henrico Fall Line Trail Phase 4: Lakeside Community Trail Section III	Off- Road/On-Road Trail	Lakeside Recreation Area	Hilliard Rd	Henrico	\$ 4,302,000
221	AT-23	FAT-21	Fall Line / Route 1	Henrico Fall Line Trail Phase 6: Villa Park	Off- Road/On-Road Trail	Lakeside Ave	Parham Rd	Henrico	\$ 4,200,000
222	AT-24	FAT-22	Fall Line / Route 1	Henrico Fall Line Trail Phase 7: Longdale	Off- Road/On-Road Trail	Parham Rd	Woodman Rd Extended	Henrico	\$ 26,006,629
223	AT-25	FAT-23	Fall Line / Route 1	Henrico Fall Line Trail Phase 8: Chickahominy River Crossing	Off- Road/On-Road Trail	Woodman Rd Extended	Cedar Ln	Henrico/ Hanover	\$ 4,989,908
224		FAT-24	Fall Line / Route 1	Hanover Fall Line: Segment 7C - MM 37.4 to MM 43.3	Off- Road/On-Road Trail	Winfrey Rd (Henrico)	Gwathmey Church Rd	Hanover	\$ 4,414,442
225	AT-28	FAT-25	East End Trail/West Creek Trail	Trail through West Creek area of Goochland County	Off Road Trail	West Creek/Patterson	Wilkes Ridge Pkwy	Goochland	\$ 1,164,000
226	AT-29	FAT-26	James River Heritage Trail	James River Heritage Trail : Henrico	Off Road Trail	Richmond City Line	Goochland County Line	Henrico	\$ 30,000,000
227	AT-30	FAT-27	Cox Rd	Cox Rd Bike Facility	Segregated Bike Lane	US-250	North end of Cox Rd	Henrico	\$ 9,000,000
228	AT-31	FAT-28	Nuckols Rd Trail	Multiuise Trail	Off Road Trail	Springfield Rd	Francistown Rd	Henrico	\$ 4,000,000
229	AT-32	FAT-29	Ashcake Rd	Spur to Fall Line	On Road Trail	Giddy Up Ln	US- 1	Ashland	\$ 4,600,000

ConnectRVA 2045 Universe of Projects - Active Transportation Projects (4-19-2021)

SN	Public Review ID	Final Project ID	Corridor /Route	Project Description	Project Type	From	To	Project Jurisdiction	Total Cost Estimates
230	AT-33	FAT-30	Magolia Ridge Dr	Multiuse trail connecting Fall Line to Virginia Center Commons	Off Road Trail	Brook Rd	Woodman Rd Extended	Henrico	\$ 650,000
231	AT-34	FAT-31	Route 155	Connection between Charles City and New Kent courthouses (spur from Virginia Capital Trail)	Off Road Trail	VA-5(Charles City Schools)	New Kent County Line	Charles City	\$ 16,800,000
232	AT-37	FAT-32	Connector to Stratton Park	Shared Use Path (eventually connecting Stratton Park to Pocahontas State Park)	Off Road Trail	VA-150	Jessup Road	Chesterfield	\$ 1,600,000
233		FAT-33	Mountain Rd	Shared Use Trail	Shared Use Path	Woodman Rd	Staples Mill Rd	Henrico	\$ 12,000,000
234		FAT-34	Wilton on the James Trail	Shared Use Trail	Shared Use Path	VA-5	James River	Henrico	\$ 5,000,000

ConnectRVA 2045 Universe of Projects - Park and Ride Projects (Final 4-19-2021)

SN	Public Review ID	Final Project ID	Project Location /Route /Corridor	Project Description	Jurisdiction	Project Cost Estimates
235	PR-1	FPR-1	VA Center Commons/I-295/I-95	New P&R Lot of 380 Spaces on 2.6 AC	Henrico	\$ 8,300,000
236	PR-2	FPR-2	Lewistown Rd/Lakeridge Pkwy or Ashland	New P&R Lot of 200 spaces on 1.4 AC	Hanover or Ashland	\$ 4,500,000
237	PR-3	FPR-3	Midlothian @ Chippenham	New P&R lot of 270 spaces on 1.9 AC	Chesterfield	\$ 7,300,000
238	PR-4	FPR-4	East End CBD at Pulse Terminus-Rocketts	New P&R lot of 130 spaces on 0.9 AC parcel	Henrico or Richmond	\$ 3,000,000
239	PR-5	FPR-5	I-64/US-60 at Laburnum Rd	New P&R lot of 120 spaces on 0.8 AC parcel	Henrico	\$ 2,850,000
240	PR-6	FPR-6	I-295at US-60-Technology Blvd/Elko Rd	New P& R lot of 120 space on 0.8 AC as alternative to Bottoms Bridge P&R expansion which is over-capacity	Henrico or New Kent	\$ 2,850,000
241	PR-7	FPR-7	VA-10/VA- 288 at I-95/I-295	New P&R lot of 250 spaces on 1.7 AC	Chesterfield	\$ 5,600,000
242	PR-8	FPR-8	US-250 at Willow Lawn/Staples Mill (Pulse western terminus)	New P&R lot subject of much site search, 290 spaces on 2.0 AC	Henrico	\$ 6,000,000
243	PR-9	FPR-9	Huguenot Rd at Forest Hill Ave	New P&R lot to replace unofficial lot, 130 spaces on 0.9 AC	Chesterfield	\$ 3,000,000
244	PR-10	FPR-10	I-64 at I-295 in Short Pump	New P& R lot of 320 spaces on 2.2 AC	Henrico	\$ 7,000,000
245	PR-12	FPR-11	VA- 76/US-60	New P& R lot	Chesterfield	\$ 5,000,000
246	PR-13	FPR-12	VA-76/Jhanke	New P& R lot	Chesterfield	\$ 5,000,000
247	PR-14	FPR-13	VA-288 at US-250	New P & R lot near US 288/US 250 interchange of 100 parking spaces	Goochland	\$ 1,800,000
248	PR-15	FPR-14	I-64 & VA- 623 (Ashland Rd)	Relolating existing P & R lot with 180 parking spaces	Goochland	\$ 1,800,000

ConnectRVA 2045 Universe of Projects - Rail Projects (4-19-2021)

SN	Public Review ID	Final Project ID	Project Description	Type	Jurisdiction	Project Cost Estimates
249	RA-1	FRA-1	Improvements to CSX Bellwood Sub (S-Line) to support increased passenger rail service. Construction of additional trackage along CSX Bellwood Sub (S-Line) and bridge over James River as part of Transforming Rail in Virginia initiative.	Enhancement - Capacity	Multi-Jurisdictional	\$500,000,000
250	RA-2	FRA-2	CSX S-Line Crossing Improvements. Grade separate or gate key crossings as they relate to increased usage of the CSX Bellwood Sub (S-line) for both freight & future passenger rail per Transforming Rail in Virginia initiative	Enhancement- Grade Separation	Multi-Jurisdictional	\$66,250,000
251	RA-3	FRA-3	Improvements to CSX Bellwood Sub (S-Line).Construction of sidings and leads as needed to provide rail access to Alleghany Warehouse and Altria / DuPont development areas along Commerce Road.	Industrial Access	Richmond	\$2,690,000
252	RA-4	FRA-4	Improvements to CSX Peninsula Sub line. Construction of sidings and leads as needed to provide rail access to select parcels within RIC/White Oak area	Industrial Access	Henrico	\$6,000,000
253	RA-6	FRA-5	Improvements to NS Burkeville to West Point line. Construction of sidings and leads as needed to provide rail access to select parcels within RIC/White Oak area	Industrial Access	Henrico	\$3,000,000
254	RA-7	FRA-6	Improvements in Hanover Siding. Construction of 2.9 miles of third track between the South Anna River and W. Vaughan Road. Construction of a single-track bridge at Elletts Crossing Road. Modify the at-grade crossing at Vaughan Road and reconstruct the roadway bridge at Washington Highway to accommodate the proposed third track between South Anna River and W. Vaughan Road	Enhancement -Capacity	Hanover/Ashland	\$60,000,000
255	RA-8	FRA-7	Replacement of existing Staples Mill AMTRAK Station-Phase I-Site Work and Building replacement (30% prelim DD 2026 estimate)	Enhancement -Station Improvement	Henrico	\$259,000,000
256	RA-9	FRA-8	Replacement of existing Staples Mill AMTRAK Station-Phase II- Track relocation, platform (30% prelim DD-2030 estimate)	Enhancement -Station Improvement	Henrico	\$397,000,000
257	RA-10	FRA-9	Replacement of existing Staples Mill AMTRAK Station-Phase III-Related land for full function (30% prelim DD-later years as per full build-out)	Enhancement -Station Improvement	Henrico	\$79,000,000

ConnectRVA 2045 Universe of Projects - Transit Projects (4-19-2021)

SN	Public Review ID	Final Project ID	Corridor	Project Description	Project Type	From	To	Jurisdiction	Total Cost Estimates
258	TR-1	FTR-1	Midlothian	14.3 miles, from CBD to Stonebridge replace less frequent service with more frequency; new service from Stonebridge to Chesterfield Town Center	Enhanced 15 min transit	CBD	Chesterfield Town Center	Richmond-Chesterfield	\$ 40,500,000
259	TR-2	FTR-2	Midlothian	16.8 miles from the Pulse downtown station(s) to Westchester Commons, via Hull Street	Bus Rapid Transit	CBD	Westchester Commons	Richmond/Chesterfield	\$ 97,500,000
260	TR-3	FTR-3	RIC Airport	10.5 miles from CBD to Airport via Williamsburg Rd	Enhanced Route 7A/7B-15 min transit	CBD	RIC Airport	Richmond/Henrico	\$ 24,000,000
261	TR-4	FTR-4	Rt 1 North	10.77 miles from CBD to Parham Road	Enhanced Route along existing from CBD to Wilmer/Chamberlayne and then extended to Parham Road	CBD	Parham Road	Richmond/Henrico	\$ 15,900,000
262	TR-5	FTR-5	Rt 1 North	15.7 miles from The Pulse BRT downtown to Ashland along US 1	Bus Rapid Transit	CBD	Ashland	Richmond/Henrico/Hanover/Ashland	\$ 42,500,000
263	TR-6	FTR-6	Broad St	11.5 miles from Willow Lawn to Short Pump	Enhanced route of existing Short Pump route to 15-minute service, transfer at Willow Lawn BRT to Short Pump Town Center	Willow Lawn	Short Pump	Richmond/Henrico	\$ 24,000,000
264	TR-7	FTR-7	Broad St	9.8 miles extension of The Pulse BRT at Willow Lawn to Short Pump Mall	Bus Rapid Transit	Willow Lawn	Short Pump	Richmond/Henrico	\$ 125,000,000
265	TR-8	FTR-8	West End South	15.85 miles enhanced 15-min service	Combination of enhanced existing route to Regency and extension to Gayton Crossing	Cary/Main	Gayton Crossing	Richmond/Henrico	\$ 134,000,000
266	TR-9	FTR-9	West End South	18.1 miles from Cary and Main/Patterson/Regency Mall to Short Pump Mall	Bus Rapid Transit	Cary/Main	Short Pump	Richmond/Henrico	\$ 160,000,000
267	TR-10	FTR-10	NA	23rd Street & Franklin Street Neighborhood Transit Center	New Transit Center	NA	NA	Richmond	\$ 308,000
268		FTR-11	Broad St East	Old Osborne Turnpike BRT Extension	Bus Rapid Transit	Rocketts Landing	Wilton on the James	Henrico	\$ 30,000,000

Agenda Item B.2.

FY21 – FY24 TIP Amendments: GRTC Request

REQUESTED ACTION: *Review and approval of requests from GRTC to amend the FY21 – FY24 Transportation Improvement Program (TIP) to add three new projects.*

RESOLUTION

The following resolution is presented for RRTPO Policy Board review and approval:

RESOLVED, that the Richmond Regional Transportation Planning Organization Policy Board amends the FY21 – FY24 Transportation Improvement Program (TIP) adding the following three new projects and

BE IT FURTHER RESOLVED, that these projects are considered exempt from conformity under provisions contained in section 93.126 of the conformity rule as follows:

Three New Projects:

- *UPC GRTC065: Articulated Buses – GRTC; **Mass Transit** – Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet*
- *UPC GRTC067: Consultant Services – GRTC; **Other** – Planning and Technical Studies*
- *UPC GRTC068: BRT Station Modification – GRTC; **Mass Transit** - Reconstruction or renovation of transit buildings and structures (e.g., rail or bus buildings, storage and maintenance facilities, stations, terminals, and ancillary structures).*

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POLICY BOARD AGENDA 5/6/21; ITEM B.2.

FY21 – FY24 TIP AMENDMENTS: GRTC REQUEST

Richmond Regional Transportation Planning Organization

REQUESTED ACTION: Review and approval of requests from GRTC to amend the FY21 – FY24 Transportation Improvement Program (TIP) to add three new projects.

BACKGROUND: The RRTPO Policy Board has received a request from GRTC to amend the TIP to add three new projects. The proposed amendments are listed below and the draft TIP pages with planned obligations and notes are included as an attachment to this report.

Three New Projects:

- **UPC GRTC065: Articulated Buses** – This project is the purchase of articulated buses for the Pulse. The planned obligations are sufficient for three (3) buses per year. This project will use FTA 5307, state, and local matching funds.
- **UPC GRTC067: Consultant Services** – This project is the use of consultant services for studies and various transit projects such as asset management, platform, BRT, transfer centers, or dedicated lanes. This project will use FTA 5307, state, and local matching funds.
- **UPC GRTC068: BRT Station Modification** – This project is modification of the Pulse stations to accommodate the larger articulated buses. Obligations are planned prior to the purchase of the articulated buses. This project will use FTA 5307, state, and local matching funds.

PUBLIC COMMENT: A 15-day public review period was opened on April 15 to allow review and comment on the proposed amendments. The draft TIP pages, amendment notes, and TAC presentation were posted on the RRTPO website along with a comment form. The TIP comment period was shared with board and committee members and interested parties via email. All comments received will be shared with the policy board prior to the May meeting.

TAC RECOMMENDATION: TAC reviewed the proposed amendments at the April meeting as unanimously recommended approval of the requests.

STAFF RECOMMENDATION: Staff also recommends approval of the proposed TIP amendments.

ACTION REQUESTED: The following resolution is presented for consideration:

RESOLVED, that the Richmond Regional Transportation Planning Organization Policy Board amends the *FY21 – FY24 Transportation Improvement Program (TIP)* adding the following three new projects and

BE IT FURTHER RESOLVED, that these projects are considered exempt from conformity under provisions contained in section 93.126 of the conformity rule as follows:

Three New Projects:

- UPC GRTC065: Articulated Buses – GRTC; **Mass Transit** – Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet
- UPC GRTC067: Consultant Services – GRTC; **Other** – Planning and Technical Studies
- UPC GRTC068: BRT Station Modification – GRTC; **Mass Transit** - Reconstruction or renovation of transit buildings and structures (e.g., rail or bus buildings, storage and maintenance facilities, stations, terminals, and ancillary structures).

Attachments

CAP/jl

FY 2021 to FY 2024 Richmond Region TPO Transportation Improvement Program

Public Transportation

UPC GRTC065

Jurisdiction: GRTC
Route/Street:
Description: Articulated Buses
Scope: Transit
From: GRTC service area
To: GRTC service area
Length:
Administered By: GRTC
MPO Note:

Regionally Significant:

No Image Available

Schedule

Phase	Start	End	Status
Preliminary Engineering (PE):			
Right of Way (RW):			
Construction (CN):			

Cost Estimates / Previous Obligations

Goals addressed

Cost Estimates
PE: \$0
RW: \$0
CN:
Total:

Access	No	Congestion	Yes	Environment	Yes
Freight	No	Landuse	No	Maintenance	Yes
Safety	No	Reliability	Yes	Multimodal	Yes

Federal Obligations

Fund Source	Federal Obligations			
	FY21	FY22	FY23	FY24
FTA 5307	\$0	\$0	\$672,000	\$672,000
State	\$0	\$0	\$1,632,000	\$1,632,000
Local	\$0	\$0	\$96,000	\$96,000

Amendments

Amd 12 5/6/2021 Approved

1). This is a new project added to the TIP. 2). Obligate \$672,000 FTA Sec 5307 funds to FY23 and \$672,000 FTA Sec 5307 funds to FY24. 3). Obligate \$1,632,000 State match to FY23 and \$1,632,000 State match to FY24. 4). Obligate \$96,000 local match to FY23 and \$96,000 local match to FY24.

Date Requested 3/9/2021

FY 2021 to FY 2024 Richmond Region TPO Transportation Improvement Program

Public Transportation

UPC GRTC067

Jurisdiction: GRTC

Route/Street:

Description: Consultant Services

Scope: Transit

From:

To:

Length:

Administered By: GRTC

Regionally Significant:

MPO Note:

No Image Available

Schedule

Phase	Start	End	Status
Preliminary Engineering (PE):			
Right of Way (RW):			
Construction (CN):			

Cost Estimates / Previous Obligations

Goals addressed

Cost Estimates		Access	No	Congestion	No	Environment	No
PE:	\$0	Freight	No	Landuse	No	Maintenance	Yes
RW:	\$0	Safety	No	Reliability	Yes	Multimodal	No
CN:							
Total:							

Federal Obligations

Fund Source	Federal Obligations			
	FY21	FY22	FY23	FY24
FTA 5307	\$277,760	\$714,000	\$0	\$0
State	\$674,560	\$1,734,000	\$0	\$0
Local	\$0	\$102,000	\$0	\$0

Amendments

Amd 13 5/6/2021 Approved

1). This is a new project added to the TIP. 2). Obligate \$277,760 FTA Sec 5307 funds to FY21 and \$714,000 FTA Sec 5307 funds to FY22. 3). Obligate \$674,560 State match to FY21 and \$1,734,000 State match to FY22. 4). Obligate \$102,000 local match to FY22.

Date Requested 3/9/2021

FY 2021 to FY 2024 Richmond Region TPO Transportation Improvement Program

Public Transportation

UPC GRTC068

Jurisdiction: GRTC

Route/Street:

Description: BRT Station Modification

Scope: Transit

From:

To:

Length:

Administered By: GRTC

Regionally Significant:

MPO Note:

No Image Available

Schedule

Phase	Start	End	Status
Preliminary Engineering (PE):			
Right of Way (RW):			
Construction (CN):			

Cost Estimates / Previous Obligations

Goals addressed

Cost Estimates		Access	No	Congestion	No	Environment	No
PE:	\$0	Freight	No	Landuse	No	Maintenance	Yes
RW:	\$0	Safety	No	Reliability	Yes	Multimodal	No
CN:							
Total:							

Federal Obligations

Fund Source	Federal Obligations			
	FY21	FY22	FY23	FY24
FTA 5307	\$0	\$420,000	\$0	\$0
State	\$0	\$1,020,000	\$0	\$0
Local	\$0	\$60,000	\$0	\$0

Amendments

Amd 14 5/6/2021 Approved

1). This is a new project added to the TIP. 2). Obligate \$420,000 FTA Sec 5307 funds to FY22. 3). Obligate \$1,020,000 State match to FY22. 4). Obligate \$60,000 local match to FY22.

Date Requested 3/9/2021

FY 2021 to FY 2024 Richmond Region TPO Transportation Improvement Program

Project Amendments - Tracking Records

Amd 12	GRTC065	GRTC	Articulated Buses
5/6/2021	Approved	1). This is a new project added to the TIP. 2). Obligate \$672,000 FTA Sec 5307 funds to FY23 and \$672,000 FTA Sec 5307 funds to FY24. 3). Obligate \$1,632,000 State match to FY23 and \$1,632,000 State match to FY24. 4). Obligate \$96,000 local match to FY23 and \$96,000 local match to FY24. Date Requested 3/9/2021	
Amd 13	GRTC067	GRTC	Consultant Services
5/6/2021	Approved	1). This is a new project added to the TIP. 2). Obligate \$277,760 FTA Sec 5307 funds to FY21 and \$714,000 FTA Sec 5307 funds to FY22. 3). Obligate \$674,560 State match to FY21 and \$1,734,000 State match to FY22. 4). Obligate \$102,000 local match to FY22. Date Requested 3/9/2021	
Amd 14	GRTC068	GRTC	BRT Station Modification
5/6/2021	Approved	1). This is a new project added to the TIP. 2). Obligate \$420,000 FTA Sec 5307 funds to FY22. 3). Obligate \$1,020,000 State match to FY22. 4). Obligate \$60,000 local match to FY22. Date Requested 3/9/2021	

Agenda Item B.3.

FY21 – FY24 TIP Amendments: DRPT Request

REQUESTED ACTION: *Review and approval of requests from DRPT to amend the FY21 – FY24 Transportation Improvement Program (TIP) to add two new projects.*

RESOLUTION

The following resolution is presented for RRTPO Policy Board review and approval:

RESOLVED, *that the Richmond Regional Transportation Planning Organization Policy Board amends the FY21 – FY24 Transportation Improvement Program (TIP) adding the following two new projects and*

BE IT FURTHER RESOLVED, *that these projects are considered exempt from conformity under provisions contained in section 93.126 of the conformity rule as follows:*

Two New Projects:

- *UPC CBI0001: Paratransit Vehicles—DRPT; **Mass Transit***
- Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet
- *UPC HHI0001: Paratransit Vehicles—DRPT; **Mass Transit***
- Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet

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POLICY BOARD AGENDA 5/6/21; ITEM B.3.

FY21 – FY24 TIP AMENDMENTS: DRPT REQUEST

Richmond Regional Transportation Planning Organization

REQUESTED ACTION: Review and approval of requests from DRPT to amend the FY21 – FY24 Transportation Improvement Program (TIP) to add two new projects.

BACKGROUND: The RRTPO Policy Board has received a request from DRPT to amend the TIP to add two new projects. Amendment details are outlined below:

Two New Projects:

- **UPC CBI0001: Paratransit Vehicles** – This project will allow Community Brain Injury Services to purchase one (1) 14-passenger wheelchair accessible bus. This project will be 100% federally funded.
- **UPC HHI0001: Paratransit Vehicles** – This project will allow Heart Havens, Inc to purchase 9-passenger vans with lifts. This project will be 100% federally funded.

PUBLIC COMMENT: A 15-day public review period was opened on April 15 to allow review and comment on the proposed amendments. The draft TIP pages, amendment notes, and TAC presentation were posted on the RRTPO website along with a comment form. The TIP comment period was shared with board and committee members and interested parties via email. All comments received will be shared with the policy board prior to the May meeting.

TAC RECOMMENDATION: TAC reviewed the proposed amendments at the April meeting as unanimously recommended approval of the requests.

STAFF RECOMMENDATION: Staff also recommends approval of the proposed TIP amendments.

ACTION REQUESTED: The following resolution is presented for consideration:

RESOLVED, that the Richmond Regional Transportation Planning Organization Policy Board amends the *FY21 – FY24 Transportation Improvement Program (TIP)* adding the following two new projects and

BE IT FURTHER RESOLVED, that these projects are considered exempt from conformity under provisions contained in section 93.126 of the conformity rule as follows:

Two New Projects:

- **UPC CBI0001: Paratransit Vehicles—DRPT; Mass Transit** - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet

- UPC HHI0001: Paratransit Vehicles—DRPT; **Mass Transit** - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet

Attachments

CAP/jl

FY 2021 to FY 2024 Richmond Region TPO Transportation Improvement Program

Public Transportation

UPC CBI0001

Jurisdiction: DRPT

Route/Street:

Description: Paratransit Vehicle

Scope: Transit

From:

To:

Length:

Administered By: DRPT

Regionally Significant:

MPO Note:

No Image Available

Schedule

Phase	Start	End	Status
Preliminary Engineering (PE):			
Right of Way (RW):			
Construction (CN):			

Cost Estimates / Previous Obligations

Goals addressed

Cost Estimates		Access Yes	Congestion No	Environment No
PE: \$0		Freight No	Landuse No	Maintenance No
RW: \$0		Safety No	Reliability Yes	Multimodal Yes
CN:				
Total:				

Federal Obligations

Fund Source	Federal Obligations			
	FY21	FY22	FY23	FY24
FTA 5310	\$0	\$65,000	\$0	\$0

Amendments

Amd 15 5/6/2021 Approved

1). This is a new project added to the TIP. 2). Obligate 65,000 FTA Section 5310 funds (100% Fed) to FY22.

Date Requested 3/15/2021

FY 2021 to FY 2024 Richmond Region TPO Transportation Improvement Program

Public Transportation

UPC HHI0001

Jurisdiction: DRPT

Route/Street:

Description: Paratransit Vehicles

Scope: Transit

From:

To:

Length:

Administered By: DRPT

Regionally Significant:

MPO Note:

No Image Available

Schedule

Phase	Start	End	Status
Preliminary Engineering (PE):			
Right of Way (RW):			
Construction (CN):			

Cost Estimates / Previous Obligations

Cost Estimates	
PE:	\$0
RW:	\$0
CN:	
Total:	

Goals addressed

Access	Yes	Congestion	No	Environment	No
Freight	No	Landuse	No	Maintenance	No
Safety	No	Reliability	Yes	Multimodal	Yes

Federal Obligations

Fund Source	Federal Obligations			
	FY21	FY22	FY23	FY24
FTA 5310	\$0	\$130,000	\$0	\$0

Amendments

Amd 16 5/6/2021 Approved

1). This is a new project added to the TIP. 2). Obligate \$130,000 FTA Section 5310 funds (100% Fed) to FY22.

Date Requested 3/15/2021

FY 2021 to FY 2024 Richmond Region TPO Transportation Improvement Program

Project Amendments - Tracking Records

Amd 15 CBI0001 DRPT Paratransit Vehicle

5/6/2021 Approved 1). This is a new project added to the TIP. 2). Obligate 65,000 FTA Section 5310 funds (100% Fed) to FY22.
Date Requested 3/15/2021

Amd 16 HHI0001 DRPT Paratransit Vehicles

5/6/2021 Approved 1). This is a new project added to the TIP. 2). Obligate \$130,000 FTA Section 5310 funds (100% Fed) to FY22.
Date Requested 3/15/2021

Agenda Item B.4.

FY21 – FY24 TIP Amendments: VDOT Request

REQUESTED ACTION: *Review and approval of a request from VDOT to amend the FY21 – FY24 Transportation Improvement Program (TIP) to revise the Construction: Bridge Rehabilitation/Replacement/Reconstruction Project Grouping summary table.*

RESOLUTION

The following resolution is presented for RRTPO Policy Board review and approval:

RESOLVED, *that the Richmond Regional Transportation Planning Organization Policy Board amends the FY21 – FY24 Transportation Improvement Program (TIP) revising the Construction: Bridge Rehabilitation/Replacement/Reconstruction project grouping summary table as presented.*

POLICY BOARD AGENDA 5/6/21; ITEM B.4.

FY21 – FY24 TIP AMENDMENTS: VDOT REQUEST

Richmond Regional Transportation Planning Organization

REQUESTED ACTION: Review and approval of a request from VDOT to amend the FY21 – FY24 Transportation Improvement Program (TIP) to revise the Construction: Bridge Rehabilitation/Replacement/Reconstruction Project Grouping summary table.

BACKGROUND: The RRTPO Policy Board has received a request from VDOT to amend the TIP to revise a Project Grouping summary table. These revisions are necessary as four bridges are being removed from preventative maintenance and added to the construction grouping for state of good repair work. These projects are not considered significant to be individually listed in the TIP and are included. The four bridge projects are:

- UPC 111300 - #SGR18VB - Bridge Rehab 1st Street Over I-95
- UPC 113375 - #SGR19VB - Replace Superstructure Broad Street Over I-95
- UPC 113388 - #SGR19VB - BR Replace Superstructure 4th Street Over I-95
- UPC 118484 - #SGR21VB – 7th Street Over I-95 – SUPER REPL – FED ID 21289

Amendment details are outlined below:

Revision of Project Grouping Summary Table—Construction: Bridge Rehabilitation/Replacement/Reconstruction

PE: Add \$2,476,840 NHS/NHPP funds to FY21.

RW: Add \$268,060 NHS/NHPP funds to FY21; \$1,478,205 NHS/NHPP funds to FY23; and \$266,357 STP/STBG to FY23.

CN: Add \$13,738,026 AC Conversion funds to FY22; and \$4,012,221 AC Conversion funds to FY24.

Revise FY23 AC Conversion funds from \$200,000 to \$9,012,602.

Add \$1,463,471 NHFP funds to FY21; \$9,995,039 NHS/NHPP funds to FY21;

\$7,805,103 NHS/NHPP funds to FY24; and Add \$3,344,097 STP/STBG funds to FY24.

CN Fed AC funds: Revise FY21 Fed CN AC funds from \$3,519,000 to \$30,223,322.

CN AC Other funds: Add \$9,329,785 CN AC Other funds to FY21; \$8,470,585 CN AC Other funds to FY24.

CN AC funds: Add \$8,470,585 CN AC funds to FY24; revise FY21 CN AC funds from \$3,519,000 to \$39,553,107.

PUBLIC COMMENT: A 15-day public review period was opened on April 15 to allow review and comment on the proposed amendments. The draft TIP pages, amendment notes, and TAC presentation were posted on the RRTPO website along with a comment form. The TIP comment period was shared with board and

committee members and interested parties via email. All comments received will be shared with the policy board prior to the May meeting.

TAC RECOMMENDATION: TAC reviewed the proposed amendment at the April meeting as unanimously recommended approval of the request.

STAFF RECOMMENDATION: Staff also recommends approval of the proposed TIP amendment.

ACTION REQUESTED: The following resolution is presented for consideration:

RESOLVED, that the Richmond Regional Transportation Planning Organization Policy Board amends the *FY21 – FY24 Transportation Improvement Program (TIP)* revising the Construction: Bridge Rehabilitation/Replacement/Reconstruction project grouping summary table as presented.

Attachment
CAP/jl

Richmond District**Project Groupings**

MPO	Richmond					
GROUPING	Construction : Bridge Rehabilitation/Replacement/Reconstruction					
ROUTE/STREET					TOTAL COST	\$106,539,240
	FUND SOURCE	MATCH	FY21	FY22	FY23	FY24
PE	Federal - AC CONVERSION	\$105,000	\$0	\$420,000	\$0	\$0
	Federal - NHS/NHPP	\$0	\$2,476,840	\$0	\$0	\$0
PE TOTAL		\$105,000	\$2,476,840	\$420,000	\$0	\$0
RW	Federal - AC CONVERSION	\$245,000	\$0	\$380,000	\$600,000	\$0
	Federal - NHFP	\$0	\$1	\$0	\$0	\$0
	Federal - NHS/NHPP	\$0	\$268,060	\$0	\$1,478,205	\$0
	Federal - STP/STBG	\$0	\$0	\$0	\$266,357	\$0
RW TOTAL		\$245,000	\$268,061	\$380,000	\$2,344,562	\$0
CN	Federal - AC CONVERSION	\$50,000	\$0	\$13,738,026	\$9,012,602	\$4,012,221
	Federal - NHFP	\$16,447	\$1,463,471	\$65,789	\$0	\$0
	Federal - NHS/NHPP	\$1,944,643	\$9,995,039	\$7,778,573	\$0	\$7,805,103
	Federal - RSTP	\$1,150,000	\$0	\$4,600,000	\$0	\$0
	Federal - STP/STBG	\$0	\$0	\$0	\$0	\$3,344,097
CN TOTAL		\$3,161,091	\$11,458,510	\$26,182,388	\$9,012,602	\$15,161,421
CN AC	Federal - AC	\$1,604,750	\$30,223,322	\$2,900,001	\$0	\$0
	Federal - AC OTHER	\$363,909	\$9,329,785	\$1,455,637	\$0	\$8,470,585
CN AC		\$1,968,660	\$39,553,107	\$4,355,638	\$0	\$8,470,585
MPO Note		TIP AMD - add \$2,476,840 (NHPP) FFY21 PE phase; add \$268,060 (NHPP) FFY21, \$1,478,205 (NHPP) & \$266,357 (STP/STBG) FFY23 RW phase; add \$9,995,039 (NHPP), \$1,463,471 (NHFP), add \$20,767,260 (AC-NHPP) & \$15,266,847 (AC-Other) FFY21, add \$13,738,026 (ACC-NHPP) FFY22, \$8,812,602 (ACC-NHPP) FFY23 & \$4,012,221 (ACC-NHPP) FFY24, add \$7,805,103 (NHPP), \$3,344,097 (STP/STBG) & \$8,470,585 (AC-Other) FFY24 CN phase.				

Federal funds include the use of soft match supported by approved toll credits unless otherwise indicated and/or matching funds are shown in the "Match" column. Non-federal fund sources are as noted in the "Program Note" and shown in t

Agenda Item D.1.

Future Meeting Topics

NO ACTION REQUESTED – INFORMATION ITEM

Enclosed under this agenda tab is a brief list of topics for the June 2021 RRTPO Policy Board meeting and a list of future meeting topics to be scheduled later in FY21.

**RRTPO POLICY BOARD AGENDA 5/6/2021; Item D.1.
FUTURE MEETING TOPICS***

3 June 2021

- Title VI Plan Update
- Vision Zero Work Group – Progress Update
- Draft Regional Public Transportation Plan – GRTC
- RSTP/CMAQ Program Guidelines Update (tentative)
- FY22 Unified Planning Work Program (UPWP)
- Election of FY22 RRTPO Officers

1 July 2021

- Resiliency

OTHER FUTURE MEETING TOPICS

- DRPT Transit Modernization and Equity Study (June 2021, tentative)
- Agreement between the Commonwealth and Amtrak, CSX, and Virginia Railway Express, launching a \$3.7 billion investment to expand and improve passenger, commuter, and freight rail in Virginia and create a vital connection in America's national rail network between the Northeast and Southeast corridors.
- Public Engagement/Community Outreach Efforts

*Draft: This is not a comprehensive list of considerations and is subject to change.